

New products from Fluke

Fluke Connect® Wireless Team

See it. Save it. Share it. All the facts, right in the field.

Working with over 40 different Fluke Test Tools; Fluke Connect® allows you to identify and diagnose problems quickly and confidently, while securely sharing your data when you want, with who you want all through the Fluke Connect App.

For information on Fluke Connect enabled Test Tools, see pages 2-11.





¹ Compared to the Fluke TilXX infrared cameras ² Features vary by model, see specifications

Fluke TiS Performance Series Infrared Cameras

See more detail with improved resolution.

- Up to 2.5 times¹ more pixels and 70%¹ better D:S (Distance to Spot)
- Reduce the amount of time it takes to get an in focus image with manual or fixed focus options
- Securely store and manage your images
 - 4 GB internal memory and 4 GB micro SD card²
 - One touch image review
 - Document critical information with your infrared image using IR-PhotoNotes[™] or voice annotation^²

For information on the Fluke TiS Performance Series Infrared Cameras, see pages 55-56.

Fluke 370 FC Series True-RMS Wireless AC/DC Clamp Meters

Advanced troubleshooting performance.

- Fluke Connect® available for Fluke 376, 375 and 374 models only.
- Log and trend measurements to pinpoint intermittent faults
- Capture measurements outside the arc flash zone with Bluetooth connectivity to your Apple® or Android® devices
- Transmit results wirelessly via Fluke Connect Measurements app
- Create and send reports right from the field
- The iFlex[™] flexible current probe allows easy measurements around wires in tight spaces

For information on the Fluke 370 FC Series Clamp Meters, see page 29.





Fluke 1587 FC Insulation Multimeter

High-performance 2-in-1 Insulation DMM

Four powerful diagnostic functions enabled with the Fluke Connect Measurements app:

- 1. PI/DAR timed ratio tests with TrendIt™ graphs identifies problems faster
- **2.** Memory storage through Fluke Connect eliminates writing down results, reduces errors and saves data for historical tracking
- **3.** Temperature Compensation establishes accurate baselines and relevant historical comparisons

For information on the Fluke 1587 FC Insulation Multimeter, see page 70.



Fluke Corporation is the world leader in compact and professional electronic test tools. From industrial maintenance to commercial building operations, Fluke tools deliver the testing and troubleshooting capabilities to keep the world up and running.



Fluke Sonnect®



Digital Multimeters



26
Clamp
Meters



Battery Testers



35
ectrical
Testers





























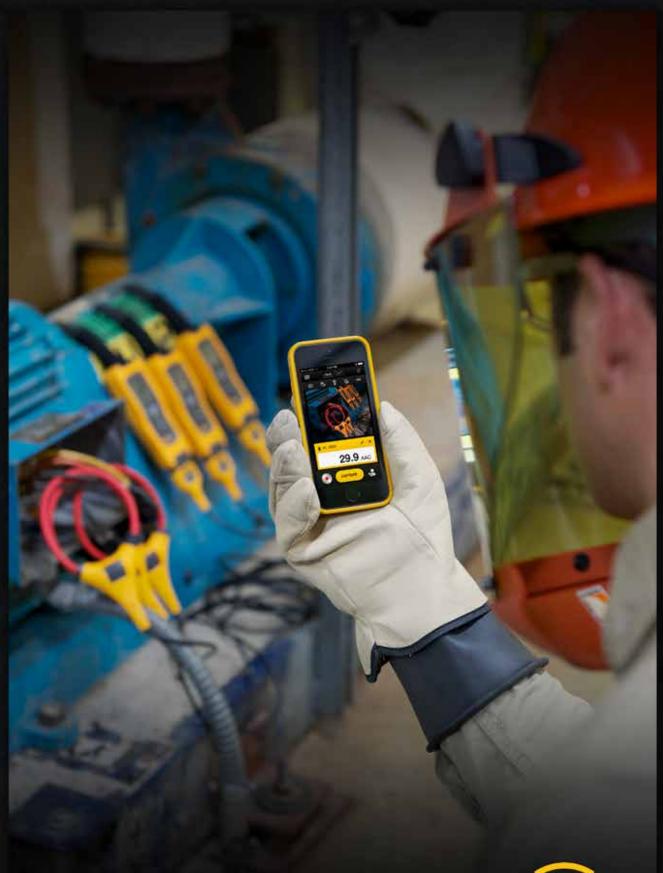








1



FLUKE CONNECT® 6



SEE IT. SAVE IT. SHARE IT.

All the facts, right in the field.



Share from anywhere

Stay on the same page even when you and your team are in different places, only with ShareLive™ video call. Securely connect and collaborate with others, so they can see what you see. Get approvals without leaving the field.



Save Time Reporting

Make better decisions faster than before. Organise your measurements by asset in one location with EquipmentLog™ history. Measure once, and cut out the paper with AutoRecord™ measurements.

When your measurements are associated with equipment, there is no need to record in the field and then transcribe into an office computer. Make decisions quicker than before by viewing temperature, mechanical, electrical and vibration measurements from one location.







Troubleshoot faster

Instantly trend and monitor intermittent problems with TrendIt™ graphs so you can easily identify trends and stop problems before they happen. Seeing is believing-trend data over time and prove your point.



Lock down your data

The Fluke Cloud™ storage infrastructure has been built to be one of the most flexible and secure cloud computing environments available today. Our cloud service provider uses state-of-the art electronic surveillance, multi-factor access controls and 24/7 data centre staffing to make Fluke Cloud one of the most flexible and secure cloud computing environments available.

Reasons to connect your tools with Fluke Connect®



WORK FASTER

The Fluke Connect® app helps you conduct routine maintenance tasks and solve problems faster than ever before. Log, track, and share equipment records without leaving the plant floor. Troubleshoot issues from afar with live measurements and video; and securely store and access all of your images and data. With Fluke Connect enabled tools, you can do all of this using your phone-anytime, anywhere.



IMPROVE SAFETY

The Fluke Connect app and enabled tools improve the safety and convenience of electro-mechanical maintenance and troubleshooting. Take live readings of energised circuits and operational mechanical equipment from a safe distance and correlate different measurements (i.e. temperature and amperage or three-phase amperage) by using multiple instruments simultaneously (i.e. temperature and current measurement modules).



WORK MORE COLLABORATIVELY

With the Fluke Connect app and enabled tools, you can collaborate with others no matter where they are. See what your team is seeing, and vice versa. Share and watch live video and readings to troubleshoot problems from any location; and save yourself the time and effort of going to the plant floor or back to the office every time there's a question or issue.



EXPERIENCE MORE THAN CONNECTIVITY

Collaborate and troubleshoot with others using ShareLiveTM video call, so they can see what you are seeing. Easily create, access and manage maintenance records with EquipmentLogTM history. Identify and monitor deteriorating equipment and maintenance needs with TrendItTM graphs and lock down your data while making it accessible anytime, anywhere using Fluke CloudTM storage.



REDUCE YOUR PAPERWORK

The Fluke Connect app allows you to enter data, create reports, and compare past with present findings using the app on your phone. Create and share equipment records on the spot and easily access and graph all of your maintenance data to identify trends and make fast decisions. With Fluke Connect tools, you can throw away the clipboard and say goodbye to manual data entry.



UTILISE THE WORLD'S LARGEST SUITE OF CONNECTED TEST TOOLS

Fluke Connect is already the world's largest wireless test and measurement system, and it's growing. More than 40 Fluke test tools can be connected including a range of infrared cameras, digital multimeters, insulation resistance testers, power quality analysers, scopemeters and vibration testers; that all come with the legendary Fluke quality, ruggedness and support.

The FREE App that turns your phone into a Fluke Tool.

DOWNLOAD THE FREE APP!

By using the Fluke Connect® app, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.

Download the Fluke Connect App FREE today







Fluke a3000 FC, a3001 FC, a3002 FC **Wireless Current Clamp and Modules**





Fluke a3000 FC

a3000 FC Wireless AC Current Clamp Module

A True RMS Current Clamp Meter that wirelessly relays measurements to other Fluke Connect® enabled master units.

- Measure up to 400 A AC
- Logging function: record and save up to 65,000 readings
- Use as a standalone meter or as part of a system
- Inrush function
- Three year warranty
- Weight: 0.22 kg





a3001 FC Wireless iFlex™ AC Current Module

A iFlex™ AC Current Module that wirelessly relays measurements to other Fluke Connect enabled master-units. It allows you to measure around awkward sized conductors or get into tight spaces and makes wire access easier.

- Measure up to 2500 A AC
- Logging function: record and save up to 65,000 readings
- Use as a standalone meter or as part of a system
- Inrush function
- Three year warranty
- Weight: 0.22 kg





a3002 FC Wireless AC/DC Current Module

For use with the i410 or i1010 AC/DC current clamps (sold separately). Wirelessly relay measurements from the i410 or i1010 clamp accessory to other Fluke Connect[™] enabled master units.

- Measure up to 400 A AC or 400 A DC with i410
- Measure up to 600 A AC or 1000 A DC with i1010
- Use as a meter alone or as part of a system
- Record and save up to 65,000 readings
- Three year warranty
- Weight: 0.255 kg







Fluke a3002 FC

Recommended Accessories





I410/I1010 Current Clamp (for a3002 FC) See page 142

PC ADAPTER Fluke Connect® Wireless PC Adapter See page 145

Recommended Kits

Buy more, Save more



Fluke Wireless a3000 FC **Current Clamp Kit**



Fluke Wireless a3001 FC iFlex™ AC Current Kit

For more details see page 133

Specifications

Fluke a3001 FC

	a3000 FC	a3001 FC	a3002 FC
Range	0.5 A to 400.0 A AC	0.5 A to 2500 A AC	up to 600 A AC and 1000 A DC
Resolution		0.1 A	
Accuracy	400.0 A: 2 % ± 5 digits (10Hz to 100Hz), 2.5 % ± 5 digits (100Hz to 500Hz)	3 % ± 5 digits (5Hz to 500Hz)	AC: 1.0% + 3 DC: 0.5% + 3 (45Hz to 1000Hz)
Inrush	Max displayed reading: 999.9A		
Crest Factor (50Hz/60Hz)	3 at 500 Å, 2.5 at 600 Å, 1.42 at 1000 Å, add 2 % for C.F. > 2	3.0 at 1100 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2 % for C.F. > 2	
Maximum voltage between terminal and earth ground (module)			30 V DC or AC RMS
LCD w/backlight	31/	⁄₂ digits	3 ½ digits, 6000 counts, 4/sec update rate
Log rate/interval	1 sec min	imum/adjustable by PC or FC Ap	p
Battery type/life	2 AA, N	EDA 15 A, IEC LR6 / 400 hours	
RF communications		2.4 GHZ ISM Band	
RF communication range		o to 20 m. Obstructed, sheetrock wall or steel electrical enclosure	
Operating & Storage temp	-10 °C	C to +50 °C / -40 °C to +60 °C	
Temperature coefficient	Add 0.1 X (spec	cified accuracy)/ °C (<18 °C or >	28 °C)
Operating humidity	0 % to 90 % (0 °C to 35 °C), 0 % to 75 % (35 °C to 40 °C), 0 % to 45 % (40 °C to 50 °C)		to 40 °C),
EMC	EN 61326-1:2006		
Safety compliance	IEC 61010-1, 600 V CAT III, 3rd edition Pollution Degree 2 IEC 61010-1, 600 V CAT IV/1000 V CAT III, 3rd edition Pollution Degree 2		
Safety rating	CAT III 600 V	CAT IV 600 V, CAT III	1000 V
Certifications	CSA, CE,	FCC: T68-FBLE IC: 6627A-FBLE	
Ingress Protection rating	IP30	IP42	
Pollution Degree		2	
Jaw Opening	64 mm	25.4 cm coil	
Size (HxWxD in cm)	16.5 x 6.35 x 3.56	16.5 x 6.35 x 1.4	16.0 x 6.6 x 3.8

Included Accessories

iFlex™ i2500 Flexible Current Probe (a3001FC), Magnetic Hanging Strap (a3002FC)

Ordering Information

FLK-A3000 FC Wireless AC Current Clamp Module

FLK-A3001 FC Wireless iFlex AC

Current Module

FLK-A3002 FC Wireless AC/DC

Current Module

FLK-A3000 FC Wireless AC **Current Clamp**

FLK-A3001 FC Wireless iFlex AC Current Kit

Fluke a3003 FC and a3004 FC Wireless Current Clamp and Modules





Fluke a3003 FC

a3003 FC Wireless 2000 A DC Current Clamp Meter

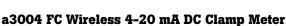
The a3003 is the tool of choice for high current DC ammeter applications that require measurements up to 2000 A DC. The extra-wide jaw easily clamps around large conductors, typically found in mining, utility, marine, rail or other heavy manufacturing industries where large DC currents or large current carrying cables are found.

The a3003's unique jaw construction allows for a wide measurement range meaning that you can accurately make measurements from 10 A DC to 2000 A DC.

- Measures from 10 A to 2000 A DC
- Large jaw size (64 mm) for measuring large, high current conductors
- Logging function: record and save up to 65,000 readings
- Three year warranty
- Weight: 0.65 kg







A fully functional current clamp meter the a3004 tests or troubleshoots 4–20 mA control loops used with drive systems, PLC's, or building energy management systems. Now you can troubleshoot and repair 4–20 mA loops without breaking the loop or bringing down the system and save time.

- Send data to your laptop and go from logging to analysis and diagnosis.
- Use the Fluke Connect® wireless USB adapter to collect logged data from remote modules by walking past a working module and downloading logged data.
- Perform for analysis with your PC and share the results using Fluke Cloud™ storage and ShareLive™ video call.
- Three year warranty
- Weight: 0.299 kg





Specifications

	a3003 FC	a3004 FC	
Range	1.0A to 999.9 A DC 1000 A to 2000 A DC	0.05 mA to 20.99 mA DC 21.0 mA to 99.9 mA DC	
Resolution	0.1 A 1 A	0.01 mA 0.1 A	
Accuracy	$2\% \pm 5$ digits $2.5\% \pm 5$ digits	$0.2\% \pm 5$ digits $1.0\% \pm 5$ digits	
LCD w/backlight	31/	∕₂ digits	
Log rate/interval	1 sec minimum/adjus	table by PC or front pannel	
Battery type	2 AA, NED.	A 15 A, IEC LR6	
Battery life	120 hours	45 hours	
Memory	Record up to	65,000 readings	
RF communications	2.4 GH	z ISM Band	
RF communication range		Obstructed, sheetrock wall: Up to 6.5 m, eel electrical enclosure: Up to 3.5 m	
Operating Temperature	-10°C	C to +50°C	
Storage Temperature	-40°C	C to +60°C	
Temperature coefficient	Add 0.1 X (specified acc	uracy) /°C (< 18°C or > 28°C)	
Operating humidity	90% at 35°C, 75% at 40°C, 45% at 50°C		
Altitude	Operating 2,000 m, Storage 12,000 m		
EMC	EN 61326-1:2013		
Safety compliance	IEC 61010-1, CAT IV 600 V, CAT III 1000 V, 3rd edition		
Safety rating	CAT IV 600 V, CAT III 1000V		
Certifications	cCSAus, CE, FCC: T6	68-FBLE IC: 6627A-FBLE	
Ingress Protection rating		IP42	
Jaw Opening	64 mm	4.5mm	
Size (HxWxD in cm)	16.5 x 6.35 x 3.56	16.5 x 6.35 x 1.4	

Recommended Accessories



PC ADAPTER
Fluke Connect®
Wireless PC Adapter
See page 145

Download the FREE Fluke Connect App today





Included Accessories

2000 A Clamp Attachment (a3003), 4-20 mA Clamp Attachment (a3004), Batteries, Hanging Strap, Quick Start Guide

Ordering Information

FLK-A3003 FC Wireless 2000 AMP

DC Module

FLK-A3004 FC Wireless 4-20 mA

DC Module

Fluke v3000 FC AC and v3001 FC **DC Wireless Voltage Modules**



Fluke v3000 FC





v3000 FC Wireless True-RMS AC Voltage Module

A fully functional True-RMS Voltage Meter that wirelessly relays AC voltage measurements to other Fluke Connect® enabled master units.

- True-RMS AC Voltage Module
- Measure up to 1000 V
- Use as a standalone meter or as part of the system
- Record and save up to 65,000 readings
- Weight: 0.22 kg

AC Voltage			
Range ¹	Resolution	Acc	uracy ^{2,3,4}
Nanye	Resolution	45 Hz to 500 Hz	500 Hz to 1 kHz
6.000 V	0.001 V		
60.000 V	0.01 V	1.0 % + 3	2.0 % + 3
600.0 V	0.1 V	1.0 % + 3	2.0 % + 3
1000 V	1 V		

- 1 All AC voltage ranges are specified from 1~% of range to 100~% of range. 2 Crest factor of ≤ 3 at full scale up to 500~V, decreasing linearly to crest factor ≤ 1.5 at 1000~V. 3 For non-sinusoidial waveforms, add –(2 % of reading + 2 % full scale) typical, for crest factor up to 3. 4 Do not exceed 106~V-Hz.



Fluke v3001 FC





v3001 FC Wireless DC Voltage Module

A fully functional DC Voltage Meter that wirelessly relays DC voltage measurements to other Fluke Connect enabled master units.

- Measure up to 1000 V DC
- Use as a standalone meter or as part of the system
- Record and save up to 65,000 readings
- Weight: 0.255 kg

DC Voltage			
Function	Range	Resolution	Accuracy
mV DC	600.0 mV	0.1 mV	0.09 % +3
	6.000V	0.001 V	
V DC	60.00 V	0.01 V	0.09 % +3
VDC	600.0 V	0.1 V	
	1000 V	1 V	0.15 % + 2

Specifications

	v3000 FC / v3001 FC
LCD w/backlight	3½ digits, 6000 counts, updates 4/sec
Battery type	2 AA, NEDA 15 A, IEC LR6
Log rate/Interval	Adjustable by PC from 1 sec to 1 hr, default 1 min
Battery life	400 hours
Memory	Record up to 65000 readings
RF communications	2.4 GHZ ISM Band
RF communication range	Open air, unobstructed: Up to 20 m, Obstructed, sheetrock wall: Up to 6.5 m, Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m
Operating temperature	-10 °C to +50 °C
Storage temperature	-40 °C to +60 °C
Temperature coefficient	0.1 X (specified accuracy)/°C (< 18 °C or > 28 °C)
Operating humidity	90 % at 35 °C, 45 % at 40 °C, 45 % at 50 °C
Altitude	Operating: 2,000 m, Storage: 12,000 m
EMC	EN 61326-1:2006
Safety compliance	ANSI/ISA 61010-1 / (82.02.01): 3rd edition, CAN/CSA-C22.2 No 61010-1-12: 3rd edition, UL 61010-1: 3rd edition, IEC/EN 61010-1:2010
Safety rating	CAT IV 600 V, CAT III 1000 V
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE
Ingress Protection (IP) rating	IP42
Pollution Degree	2
Size (HxWxD)	16.5 cm x 6.35 cm x 1.4 cm



Recommended Accessories





AC87 Heavy Duty Bus Bar Clip Set See page 140

AC220 SureGrip™ Alligator Clips See page 140



PC ADAPTER Fluke Connect® Wireless PC Adapter See page 145

Recommended Kits

Buy more, Save more



Fluke Wireless v3000 FC **AC Voltage Kit**



Fluke Wireless v3001 FC DC Voltage Kit



Fluke Wireless v3003 FC **AC-DC Voltage Measurement**

For more details see page 133

Included Accessories

TL224 Test Leads, AC285 Alligator Clips, Magnetic Hanging Strap

Ordering Information

FLK-V3000 FC Wireless AC

Voltage Module

FLK-V3001 FC Wireless DC

Voltage Module

FLK-V3000 FC Wireless AC Voltage

Kit

FLK-V3001 FC Wireless DC Voltage KIT

Kit

FLK-V3003 FC Wireless AC-DC Voltage Measurement Kit

Fluke t3000 FC Wireless K-Type **Temperature Module**





Fluke t3000 FC



The Fluke t3000 FC Wireless K-Type Temperature Module is one member of a family of wireless test tools that let you share test data using the Fluke Connect® app with ShareLive™ video call.

Fluke Connect Wireless Test Tools put tools, not your body, near live electrical panels. It's simple. Connect the t3000 FC wireless temperature module, or any of the other Fluke Connect remote modules, and read the results on the Fluke Connect Wireless Multimeter or a portable PC from a safe distance. Better still, the Fluke Connect test tools can send measurement data to your smartphone, so you can save and share measurements from the field with your team anytime, from anywhere.

Testing 3-phase is now faster and cheaper

When your cabinet is de-energised, attach a Fluke Connect voltage module to each phase. Close, re-energise and start taking readings. What used to take hours and use costly equipment can be done in minutes with an affordable Fluke Connect wireless system. Take 3-phase measurements in 1/3 the time. Add your laptop and go from logging to analysis and diagnosis. You can solve problems faster by seeing live measurements from multiple test points on a single screen.

Using t3000 FC temperature modules, you can:

- Spot temperature differences between three phases in 1/3 the time of previous methods.
- Send data to your laptop and go from logging to analysis and diagnosis.
- Record over time to monitor circuit load changes for an hour, a shift or a week.
- Use the Fluke Connect wireless USB adapter to collect logged data from remote modules by walking past a working module and downloading logged data.
- Perform for analysis with your PC and share the results using Fluke Cloud™ storage and ShareLive™ video call. View data or graphs to get input from team members.

Specifications

Range	K-type: -200 °C to 1000 °C
Resolution	0.1 °C
Accuracy	± [0.5 % + 0.3 °C] counts
Input terminals	K-type mini
LCD w/backlight	3 ½ digits
Log rate/interval	1 sec minimum/adjustable by PC and FC app on smart phone
Battery type	2 AA, NEDA 15 A, IEC LR6
Battery life	400 hours
Memory	Record up to 65,000 readings
RF communications	2.4 GHZ ISM Band
RF communication range	Open air, unobstructed: Up to 20 m, Obstructed, sheetrock wall: Up to 6.5 m, Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m
Operating temperature	-10 °C to +50 °C
Storage temperature	-40 °C to +60 °C
Temperature coefficient	0.01 % of reading +0.03 °C per °C
Temperature scale	ITS-90
Operating humidity	90 % at 35 °C, 75 % at 40 °C, 45 % at 50 °C
Altitude	Operating: 2,000 m, Storage: 12,000 m
EMC	EN 61326-1:2006
Safety compliance	IEC 61010-1, CAT I, 3rd edition Pullution Degree 2
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE
Ingress Protection rating	IP42
Pullution Degree	2
Size (HxWxD) and Weight	16.5 cm x 6.35 cm x 1.4 cm; 0.22 kg

(Not compatible with Fluke CNX test tools)



Recommended Kits

Buy more. Save more



Fluke Wireless t3000 FC **Temperature Kit**

For more details see page 133



Included Accessories

80PK-1 K-Type Bead Thermocouple Magnetic Hanging Strap.

Ordering Information

FLK-T3000 FC Wireless K-Type

Temperature Module

FLK-T3000 FC

Wireless FC Temperature Kit

Fluke Connect® Accessories





Fluke Connect® PC Adapter



Fluke Connect® ir3000 FC Connector

Connect your Fluke Test Tool with the ir3000 FC Connector and get all the benefits of the Fluke Connect mobile app. If you already have a Fluke 287/289 Digital Multimeter or Fluke 789 Process Tool in your tool box or tool belt or are considering purchasing one, add the ir3000 FC Connector so you can communicate with the Fluke Connect app.

- Fluke Connect ir3000 FC Connector allows you to wirelessly transfer data from your existing Fluke 287, 289 Digital Multimeters and Fluke 789 ProcessMeter™ to your smart phone
- Fits over the IR port of your existing Fluke tools
- Immediately enables you to graph, save, and share the tool's readings with your team from your smart phone
- · Identify and diagnose problems quickly and confidently
- Efficiently and safely capture real-time readings of the primary display from the field
- Share results instantly with your team
- Upgradeable by USB

Supported Fluke Tools:

- DMMs: 287, 289
- · Process Tool: 789

Supported Smart Phones:

- Android[™] 4.4 & up
- iPhone® 4s & later



Specifications

	ir3000 FC
Battery type	Two AAA Alkaline batteries, ANSI-24A IEC-LRO3
Battery life	6 hours of continuous transmission
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20m Obstructed, sheetrock wall: Up to 6.5m Obstructed, concrete wall or steel electrical enclosure: Up to 3.5m
Temperature	Operating: -10 °C to 50 °C Storage: -20 °C to 60 °C
Certifications	CSA, FCC, CE, IC
Warranty	Three years
Weight	80g
Size (HxWxL)	3.2cm x 7.6cm x 6.4cm
Compatibility*	Fluke 287, 289, 789

*At time of catalogue print, Fluke's ir3000 FC Connector is currently compatible with only the Fluke 287, 289 and 789 test tools. For updates on Fluke Connect test tool compatibility, go to www.fluke.com/au/connect.



Fluke Connect* PC Adapter



Fluke Connect® Wireless PC Adapter

Fluke 3000 FC Wireless Test Tools show real-time measurements from remote modules up to 20 metres away on your PC Fluke FC wireless test tools work together to help you troubleshoot faster.

The PC3000 FC Adapter and Software help you understand the information you measure. When you need to get information back to a PC the PC3000 FC Adapter and Software wirelessly collects up to 65,000 sets of time stamped MIN/MAX/AVG readings from FC remote modules. Software can display live readings from up to six modules simultaneously. Allows custom logging intervals and custom names for modules. Includes Windows SW3000 software.





See it. Save it. Share it. All the facts, right in the field.

Fluke Connect with ShareLive™ is the only wireless measurement system that lets you stay in contact with your entire team without leaving the field. The Fluke Connect mobile app is available for Android™ (4.3 and up) and iOS (4s and later) and works with over 40 different Fluke products—the largest suite of connected test tools in the world. There are more on the way; go to:

www.fluke.com/au/connect to find out more.

Make the best decisions faster than ever before by viewing all temperature, mechanical, electrical and vibration measurements for each equipment asset in one place. Get started saving time and increasing your productivity.

Download the FREE Fluke Connect app at:





Smart phone not included with purchase

Ordering Information

FLUKE-IR3000 FC Fluke Connect®

Fluke Connect® ir3000 Connector

FLK-PC3000 FC

Fluke Connect® Wireless PC Adapter

Fluke Connect® Compatible Tools

See It. Save It. Share It. All the facts, right in the field.

The Fluke Connect® app and connectable tools are the most comprehensive way to stay in contact with your team without leaving the field. With over 40 connectable tools, confidently diagnosing and solving problems has never been easier.



Fluke 3000 FC Series Wireless Multimeter

The Fluke 3000 FC Series Wireless Multimeter with the Fluke Connect app has all the essentials for convenient test and measurement troubleshooting. Plus, the Fluke Connect wireless enabled modules measure AC, DC and AC+DC voltage, AC and DC current, plus temperature, all of which display on the Fluke 3000 FC Series Wireless Multimeter.

For more information, see page 14



Fluke 280 Series Digital Multimeters

The 280 Series is the next generation high performance industrial logging multimeters designed to solve complex problems in electronics, plant automation, power distribution and electro-mechanical equipment. With the ability to log data and review it graphically on-screen, you can solve problems faster and help minimise downtime.

For more information, see page 15



Fluke 374FC/375FC/376FC True-RMS AC/DC Clamp Meters

Fluke's 374, 375 and 376 Fluke Connect Clamp Meters offer advanced troubleshooting performance. Enabling Fluke Connect, benefit from logging and trend measurements to pinpoint intermittent faults, transmit results wirelessly via the Fluke Connect Measurements app and even create and send reports right from the field.

For more information, see page 29



Fluke Performance Series Infrared Cameras

The Performance Series infrared camera range (Fluke TiS75, TiS65, TiS60, TiS55, TiS50, TiS40, TiS40, TiS20 and TiS10) offer good image quality at an affordable price. With up to 320x240 resolution, you can see more detail in every image, even from a distance – detail that could indicate a potential issue.

For more information, see page 55



Fluke Professional Series Infrared Cameras

The Professional Series infrared camera range (Fluke Ti450, Ti400 and Ti300) give you in-focus, crisp, detailed images every single time. LaserSharp™ Auto Focus performs instant focus on your designated target. Experience the power of SuperResolution for 4x pixel enhancement and MultiSharp™ Focus delivering sharp focus on multiple objects from near to far.

For more information, see page 57



Fluke Expert Series Infrared Cameras

The Expert Series range (Fluke TiX560, TiX520 and TiX500) produce extremely detailed images and with the large LCD displays, you get a premium viewing experience. Articulation allows you to navigate over, under and around objects to capture those tough shots with ease.

For more information, see page 59



Fluke Connect® Field Applications



Phase-to-phase troubleshooting with Fluke Connect Wireless Tools.



Testing production controls with Fluke Connect Wireless Tools



Three-phase unbalance testing with Fluke Connect Wireless Tools

Fluke Connect® Compatible Tools



Fluke 1587 FC Insulation Multimeter

The Fluke 1587 FC Insulation Multimeter combines a digital insulation tester with a full-featured, true-RMS Digital Multimeter in a single compact, handheld unit. When using the Fluke Connect Measurements app; PI/DAR timed ratio tests with TrendIt™ graphs allow for identifying problems faster. Also the historical tracking and trending of assets identifies degradation over time, and allows for real-time decisions to be made in the field.

For more information, see page 70



Fluke 1736 Power Logger and 1738 Advanced Power Logger

The Fluke 1736 and 1738 Three-Phase Power Loggers built with the Fluke Connect[®] mobile app and desktop software compatibility gives you the data you need to make critical power quality and energy decisions in real-time. These advanced power loggers automatically capture and log over 500 power quality parameters while also allowing you to troubleshoot more advanced power quality issues.

For more information, see page 88



Fluke 120B Series Industrial ScopeMeter® Hand-Held Oscilloscopes

The compact Fluke 120B ScopeMeter Series consisting of the Fluke 123B, 124B and 125B offer simplified testing, more insight and faster electro-mechanical troubleshooting. The series also integrates with the Fluke Connect mobile app and FlukeView® for ScopeMeter software to enable further collaboration, data analysis and archiving of critical test information.

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For more information, see page 97



Fluke 789 ProcessMeter™

The Fluke 789 ProcessMeter is the ultimate troubleshooting tool for electricians and instrumentation professionals, combining the functionality of a loop calibrator with the power of a digital multimeter. By equipping the 789 with a temperature measurement module and the wireless data logging capabilities of Fluke Connect with ShareLiveTM video call, process technicians can now do a lot more while carrying a lot less.

For more information, see page 105



Fluke 805 FC Vibration Meter

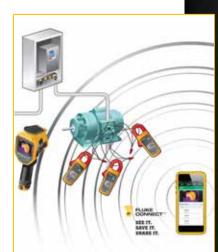
Make go or no-go maintenance decisions with confidence. The Fluke 805 FC Vibration Meter is the most reliable vibration screening device available for frontline mechanical troubleshooting teams that need repeatable, severity-scaled readings of overall vibration and bearing condition. Do all this while you stay in contact with your team using Fluke Connect with the ShareLive™ capability.

For more information, see page 126

For more details on the Fluke Connect tool range, go to:

www.fluke.com/au/connect





Measuring Three-phase load draw with Fluke Connect Wireless Tools





DIGITAL MULTIMETERS



DMM Selection Guide

1.00 1.00		Hig	Highest Accuracy	Remote Display	High–end Industrial	-end trial	Industria and F	Industrial Maintenance and Field Service		Electrical HVAC/R		Field Service	Basic Electrical		Heavy duty (P67)		General Auto- Purpose motive		Loop Calibration	Inst	Insulation Tester	Fluke Connect* Multimeter
Section Control Cont	asic features	289	287	233	8ZV	83V	179	177	175	117	116	115					ı	V 789	187 6	1587 FC	1577	3000 FC
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Fluke 3000 FC Wireless **Digital Multimeter**





Fluke 3000 FC













See it. Save it. Share it.

The Fluke 3000 FC True-RMS Wireless Multimeter and Fluke Connect® wireless test tools put tools, not your body, near live electrical panels. It's simple. Just de-energise the cabinet, open the panel while wearing PPE and connect the remote modules, whether they are voltage modules, current clamps, flexible current loops or thermometers. Then read the results on the 3000 FC Wireless Multimeter from a safe distance. You can display the meter measurement, plus readings from up to 3 wireless modules, while reducing the risk of arc flash by separating yourself from hazardous measurement situations. Better still, the Fluke 3000 FC Series Wireless Multimeter can send measurement data to your smartphone, so you can save and share measurements from the field with your team anytime, from anywhere.

Other capabilities of Fluke Connect and the 3000 FC Multimeter.

- Connect to your PC with USB dongle (optional) for analysis and diagnosis in detail.
- Perform for analysis with your smarthphone and the FC App and share the results using Fluke Cloud™ storage and ShareLive™ video call. View data or graphs to get input from team members.

The Fluke 3000 FC Series Wireless Multimeter with the Fluke Connect app has all the essentials for convenient test and measurement troubleshooting.

- AC and DC voltage measurements to 1000V
- AC and DC current with 0.01 mA resolution
- Continuity, resistance, diode test, capacitance and frequency measurements
- MIN/MAX Recording
- CAT III 1000 V, Cat IV 600 V; IP54

Specifications

Functions	Range	Basic Accuracy
AC voltage	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000V	1.0 % + 3
DC voltage	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000V	0.09 % + 2
Continuity	600 Ω	Meter beeps at < 25 Ω , beeper detects opens or shorts of 250 μ s or longer
Resistance	600 Ω, 600.0 Ω, 6.000 kΩ, 60.00 kΩ, 60.00 kΩ, 600.0 kΩ, 50.00 MΩ	0.5 % + 1
Diode test	2.000 V	1 % + 2
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF ¹	1.2 % + 2
mA AC (45 Hz to 1 kHz)	60.00 mA, 400.0 mA ³	1.5 % + 3
mA DC ²	60.00 mA, 400.0 mA ³	0.5 % + 3
Frequency	99.99 Hz, 999.9 Hz, 9.999 kHz, 99.99 kHz	0.1 % + 1

- ¹ In the 9999 μ F range for measurements to 1000 μ F, the measurement accuracy is 1.2 % + 2.
- Input burden voltage (typical): 400 mA input 2 mV/mA.
 400.0 mA accuracy specified up to 600 mA overload.

For all specifications: accuracy is specified for one year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 90 %. Accuracy specifications take the form of ± ([% of Reading] + [Number of least significant digits]).



Recommended Accessories





C3004IND oft Tool Bag ee page 144

Soft Carrying Case See page 144





PC ADAPTER Fluke Connect® Wireless PC Adapter

SureGrip™ Test Lead Set See page 139

Recommended Kits

Buy more, Save more

Fluke 3000 FC General **Maintenance System** Fluke 3000 FC Industrial System Fluke 3000 FC HVAC System

For more details see page 133

Fluke 3000 FC/1AC-II Wireless Multimeter and **Non-Contact Voltage Detector Kit**

Fluke 3000 FC/EDA2 Wireless **Multimeter and Deluxe Accessories Combo Kit**

Fluke 3000 FC/TPAK Wireless **Multimeter and Magnetic Hanger Combo Kit**

For more details see page 134

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Manual Information Pack.

Ordering Information

FLK-3000 FC FC Wireless Digital Multimeter

FLK-3000 FC Wireless General Maintenance Kit GM

FLK-3000 FC Wireless Industrial IND System Kit

FLK-3000 FC Wireless HVAC System Kit HVAC

FLK-3000 FC Wireless Multimeter & Non-Contact /1AC-II Voltage Detector

Combo Kit

FLK-3000 FC Wireless Multimeter /EDA2 Deluxe Accessories

Combo Kit FLK-3000 FC Wireless Multimeter

& Magnetic Hanger /TPAK Combo Kit

Fluke 280 Series True-RMS **Logging Multimeters**





Fluke 289/FC

Find little problems before they become big

The Fluke 287/FC and 289/FC are the next generation in high performance industrial logging multimeters.

These high performance industrial logging multimeters are designed to solve complex problems faster in many applications. Log data and review it graphically on-screen to help minimise downtime.

Communicate wirelessly with your smart phone directly from the field with the Fluke Connect® app and get quick answers or next step authorisations faster than ever before. It's as simple as adding the Fluke ir3000 FC Connector to the standard Fluke 287 and 289 (connector sold separately).

- Large 50,000 count, 1/4 VGA dot matrix display with white backlight
- · Logging function with expanded memory for unattended monitoring of signals over time. Using on-board TrendCapture, users can graphically review logged readings without needing a PC. Store up to 10,000 recorded events
- Save, name, and recall multiple logging sessions before PC download is necessary
- Field upgradeable and expandable meter lets you stay current as new capabilities are added.
- Two terminal 50 ohm range with 1 milliohm resolution, 10 mA source current. Useful for measuring and comparing differences in motor winding resistance or contact resistance (289/FC)
- Low-pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (289/FC)











Features

	287	289
	281	289
Multiple on screen displays	•	•
True-RMS AC bandwidth	100 kHz	100 kHz
dBV/dBm	•	•
DC mV resolution	1 μV	1 μV
Megohm range up to	500 ΜΩ	500 ΜΩ
Conductance	50.00 nS	50.00 nS
Continuity beeper	•	•
Elapse time clock/time of day clock	•	•
Min/Max/Avg/duty cycle/pulse width	•	•
Isolated optical DMM interface with USB PC connection	•	•
Auto/touch hold	•	•
Over 200 hours logging capacity with new power saving function	•	•
Lo Ohm capability	-	•
Lo Z volts	_	•
Lo Pass Filter	_	•
Limited lifetime warranty	•	•

Specifications

Functions	Range	Basic Accuracy
AC volts or DC volts	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	0.025 % 0.4 % (True-RMS) (AC)
AC current DC current	500.00 μA, 5000.0 μA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A	0.15 % 0.7 % (True-RMS)
Temperature (excluding probe)	−200.0 °C to 1350.0 °C	1.0 %
Resistance	50.000 Ω, 500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 50.00 MΩ, 50.00 MΩ	0.05 %
Capacitance	1.000 nF, 10.00 nF, 100.0 nF, 1.000 μF, 10.00 μF, 100.0 μF, 1000 μF, 1000 mF, 100 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz	.005 %

Recommended Accessories





TLK289 Industrial Test Lead Set See page 139

See page 138





Magnetic Meter Hanger See page 147

C280 See page 144





AC/DC Current Clamp See page 142

IR3000 FC Fluke Connect® ir3000 Connector See page 145

Recommended Kits

Buy more, Save more

Fluke 287 FlukeView® Forms **Combo Kit**

Fluke 287 FlukeView® Forms Combo Kit with ir3000FC Connector

Fluke 289 FlukeView® Forms **Combo Kit**

Fluke 289 FlukeView® Forms Combo Kit with ir3000FC Connector

For more details see page 134

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Probe Holder, 6 AA Batteries (installed), Calibration Certificate

Ordering Information

FLK-287

True-RMS Industrial Logging Multimeter with TrendCapture

FLK-289

True-RMS Electronics Logging Multimeter

with TrendCapture

FLK-287/FVF FlukeView Forms Combo Kit

FLK-289/FVF

FlukeView Forms

FLK-287/FVF/ IR3000

Combo Kit **Industrial Logging**

Multimeter and Software Combo Kit

IR3000

FLK-289/FVF/ Industrial Logging Multimeter and Software Combo Kit

FLK-IR3000 FC

Fluke Connect® ir3000 Connector

Fluke 80 Series V Digital Multimeters



Performance and accuracy for maximum industrial productivity

The Fluke 80 Series V have improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in plant automation, power distribution, and electromechanical equipment.

The Fluke 87V has a unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment. A built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument.

Electrical safety

All inputs are protected to CAT III 1000 V and CAT IV 600 V. They can withstand impulses in excess of 8,000 V to help protect you from arc blast resulting from surges and spikes.















Fluke 87V/E2 Industrial **Electrician's Combo Kit**

For more details see page 134

Features

	87V	83V
True-RMS AC voltage and current for accurate measurements on non linear signals	•	
Selectable filter for accurate voltage and frequency measurements on motor drives	•	
0.05 % DC accuracy	•	
6000 counts, 3-3/4 digits	•	•
4-1/2 digit mode for precise measurements (20,000 counts)	•	
Measure up to 1000 V AC and DC	•	•
Measure up to 10 A, 20 A for up to 30 seconds	•	•
Built in thermometer lets you carry one less tool (TC probe included)	•	
Frequency to 200 kHz and % duty cycle	•	•
Resistance, continuity and diode test	•	•
10,000 μF capacitance range for components and motor caps	•	•
Min/Max-Average recording with Min/Max Alert to capture variations automatically	•	•
Battery Life	400 hours wit	h backlight off
Size	201 mm x 98	mm x 52 mm
Weight	35	55g

Specifications

Functions	Barre	Basic accuracy		
Functions	Range	87V	83 V	
DC volts	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	0.05 %	0.1 %	
AC volts	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	0.7 % (True-RMS)	0.5 %	
DC current	600.0 μA, 6000 μA, 60.00 μA, 600.0 mA, 6.000 A, 10.00 A	0.2 %	0.4 %	
AC current	600.0 μA, 6000 μA, 60.00 μA, 600.0 mA, 6.000 A, 10.00 A	1.0 % (True-RMS)	1.2 %	
Temperature (excl. probe)	-200 °C to 1090 °C	1.0 %	_	
Temperature Probe	-40 °C to 260 °C	2.2 °C or 2 %	_	
Resistance	600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 50.00 MΩ	0.2 %	0.4 %	
Capacitance	10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF, 100.0 µF, 9,999 µF	1.0 %	1.0 %	
Frequency	199.99 Hz, 1.9999 kHz, 19.999 kHz, 199.99 kHz	0.005 %	0.005 %	

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Yellow Holster (H80M excl. TPAK), 80BK Temperature Probe (87V only), 9 V Battery (installed), User Manual and Technical Notes

Ordering Information

FLUKE-83V Industrial Multimeter True RMS Industrial FLUKE-87V Multimeter FLUKE-87V Industrial Electrician /E2 Combo Kit

Fluke 27 II, 28 II and 28 IIEx **Industrial IP67 Digital Multimeters**



Fluke 28 II

The 27 II, 28 II and 28 IIEx Digital Multimeters are designed for tough work environments. All three meters have IP 67 waterproof and dustproof rating. They both have an extended operating temperature range of -15 °C to + 55 °C and 95 % humidity.

- · Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28 II, 28 IIEx)
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument (28 II, 28 IIEx)
- Hi-resolution 20,000 count display mode (28 II,
- Resistance and continuity. Relative mode to remove test lead resistance from low ohms measurements
- Large digit display with bright, two-level backlight
- Backlit keypad buttons allow for easy visibility in low-lit areas
- Optional magnetic hanger for easy setup and viewing freeing your hands for other tasks
- Intrinsically safe certifications from the world's leading certification bodies (28 IIEx)















Features

	27 II	28 II	28 II Ex
Tested to withstand a 3 m drop	•	•	•
Wide 1000 V measurement range	•	•	•
True-RMS AC voltage and current for accurate measurements on non-linear signals	_	•	•
Low pass filter	_	•	•
Temperature	_	•	•
Average responding voltage and current measurements	•	_	_
10 A continuous (20 A for 30 seconds)	•	•	•
Frequency and capacitance	•	•	•
Record signal fluctuations using the Min/Max function	•	•	•

Specifications

		27 II	28 II	28 II Ex
DC voltage	Range		0.1 mV to 1000 V	
	Accuracy	0.05 % +1	0.05 % + 1	0.05 % + 1
AC voltage	Range		0.1 mV to 1000 V	
	Accuracy	0.5 % +3	0.7 % +4	0.7 % +4
DC current	Range		0.1 μA to 10 A	
	Accuracy	0.2 % + 4	0.2 % + 4	0.2 % + 4
AC current	Range		0.1 μA to 10 A	
	Accuracy	1.5 % + 2	1.0 % + 2	1.0 % + 2
Resistance	Range	0.1 0 to 50 MΩ		
Display counts		6000	6000/19,999	6000/19,999
Capacitance		1 nF to 9999 μF		10 nF to 9999 μF
Frequency		0.5 Hz to 199.99 kHz		
Temperature			-200 °C to +1090 °C	-200 °C to +1090 °C
Low pass filter (measu on VSD's)	rement		Yes	Yes
Compliance		CAT IV 600 V, CAT III 1000 V		
Measurement method		Avg. responding True-RMS		True-RMS
Power		Three AA batteries		
Battery life		800 hours 400 hours		400 hours
Dimensions (DxWxH)		6.35 cm x 10.0 cm x 19.81 cm		
Weight with holster		698.5 g		

Specialty Models

Fluke 28 IIEx **Intrinsically** Safe True-RMS Multimeter

CAT III 1000V/CAT IV 600V electrical safety rating

















See page 132 for more information.

Recommended Accessories





TPAK Magnetic Meter Hanger See page 147

SureGrip™ Master Accessory Set See page 139





PV350 Pressure-Vacuum Module See page 146

I410 AC/DC Current Clamp See page 142





СХТ80 Extreme Hard Case See page 145

Meter Case See page 144





TL175 TwistGuard™ Test Leads

12000 FLEX AC Current Clamp Test Lead Kit See page 141

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, 80BK-A Temperature Probe (28 II), Holster, User Manual, Three AA batteries (installed)

Ordering Information

FLUKE-27II

Industrial Multimeter

FLUKE-28II

Industrial Multimeter

FLUKE-28IIEx/AU

Intrinsically Safe Industrial Multimeter

Fluke 170 Series Digital Multimeters

Versatile meters for field service or bench repair



Fluke 179

The three models of the Fluke 170 Series True-RMS Digital Multimeters (179,177,175) have the features needed to find most electrical, electro-mechanical and heating and ventilation problems. They are simple to use and have significant improvements over Fluke's standards, and a much larger display that's easier to view.

- True RMS voltage and current measurements
- 0.09% basic accuracy (177, 179)
- 6000 count resolution
- Digital display with analog bargraph and backlight (177, 179)
- Manual and automatic ranging
- Display Hold and Auto Hold
- Frequency and capacitance measurements
- Resistance, continuity and diode measurements
- Temperature measurements (179)
- Min-max-average recording
- Smoothing mode allows filtering of rapidly changing inputs
- Easy battery exchange without opening the
- Closed case calibration through front panel
- Ergonomic case with integrated protective holster
- EN61010-1 CAT III 1000V / CAT IV 600V
- Measures twice as fast as other multimeters
- Battery life: 200 hours typical for alkaline.

 $\mathsf{C} \in \mathbb{Q}_{\scriptscriptstyle{\mathsf{USTED}}\atop{\scriptscriptstyle{\mathsf{950}\,\mathsf{Z}}}} \mathbb{Q}_{\scriptscriptstyle{\mathsf{US}}\atop{\scriptscriptstyle{\mathsf{US}}}} \mathbb{Q}_{\scriptscriptstyle{\mathsf{US}}}$

Size (HxWxL): 4.3 cm x 9.0 cm x 18.5 cm



Fluke 177



Fluke 175



Recommended Accessories Deluxe Electronic Meter Hang Test Lead Set e page 138 TL175 **I410** AC/DC Current Clamp See page 142 TwistGuard™ Test Leads See page 140 Soft Carrying Case See page 144

Electrical safety

LIEBTIM

All inputs are protected to measurement CAT III 1000 V and CAT IV 600 V. These meters can withstand transient impulses in excess of 8000 V to help protect you from arc blasts resulting from surges and spikes.

Features 177 **Features** Max voltage AC/DC 1000 1000 1000 True-RMS • • • • Temperature Basic DC accuracy 0.09 % 0.09 % 0.15 % Backlight Min/Max/Avg • • • Compatible with $ToolPak^{TM}$ meter hanging kit with magnet • • • Limited lifetime warranty

Specifications

Functions	Range	Best accuracy
DC voltage	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 0.09 % (177 and 179) ± 0.15 % (175)
AC voltage ¹	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 1.0 % of reading
DC current	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.0 % of reading
AC current ²	60.00 mA, 400.0 mA, 6.000 A, 10.00 A ²	± 1.5 % of reading
Resistance	600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 50.00 MΩ	± 0.9 % of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	± 1.2 % of reading
Frequency ³	99.99 Hz, 999.9 Hz, 9.999 Hz, 99.99 kHz	± 0.1 % of reading
Temperature (Model 179)	-40 °C to +400 °C	1.0 % of reading

¹ All AC voltage and AC current ranges are specified from 5 % of range to 100 % of range.

Included Accessories

Test Leads with 4mm Lantern Tips, Installed 9V Battery and User Manual, 80BK Temperature Probe (179 only).

Ordering Information

FLUKE-175 True RMS Digital Multimeter FLUKE-177 True RMS Digital Multimeter FLUKE-179 True RMS Digital

Multimeter

² 10 A continuous, 20 A for up to 30 seconds.

³ Voltage frequency is specified from 2 Hz to 100 kHz. Current frequency is specified from 2 Hz to 30 kHz.

Fluke 233 Remote Display **Digital Multimeter**





The Fluke 233 Remote Display Digital Multimeter allows you to be in two places at once. The removable display solves several problems. First, you no longer have to hold both the meter and the test leads to make a measurement. It also allows you to measure where the measurement point is separated from controls or where the operator can't stay close to the meter during measurements due to various hazards or moving machinery.

- Wireless technology allows the display to be carried up to 9.1 metres away from the point of measurement for added flexibility
- The removable magnetic display can be conveniently mounted where it is easily seen
- Low-power 802.15.4 wireless technology does not interfere with measurement accuracy
- Use as a conventional multimeter when the display is connected
- True-RMS AC voltage and current
- Built-in thermometer
- Auto power off maximises battery life (400 hours)
- Radio transmitter automatically turns off when the display is connected to the meter
- Record signal fluctuations using the Min/Max function













Features

Features	233
Removable magnetic display	•
True-RMS measurement	•
Digital display counts	6000
Display backlight	•
Built in thermometer	•
Resistance, continuity and diode test	•
Min/Max and average recording	•
Auto power off maximises battery life	•
Radio transmitter automatically turns off when the display is connected to the meter	•
Use as conventional multimeter when the display is connected	•
Safety rating	CAT IV 600V/CAT III 1000 V
Auto and manual ranging	•
Display Hold and AutoHold®	•
Unsafe voltage alert warns for voltages above 30V	•
2 Low batteries indication	•
Ergonomic case with integrated holster	•
Selectable sleep mode preserves battery life	•

Specifications

Functions	Specification	ns	
DC voltage	Range	0.1 mV to 1000 V	
	Accuracy	0.25 % + 2	
AC voltage	Range	0.1 mV to 1000 V	
	Accuracy	1.0 % + 3	
DC current	Range	0.001 A to 10 A	
	Accuracy	1.0 % + 3	
AC current	Range	0.001 A to 10 A	
	Accuracy	1.5 % + 3	
Resistance	Range	0.1 Ω to 40 MΩ	
Capacitance		1000 nF to 9999 μF	
Frequency		0.1 Hz to 50.00 kHz	
Temperature		-40 °C to +400 °C	
Power		3 AA batteries main body, 2 AA batteries display module	
Battery life		400 hours	
Compliance		CAT IV 600 V , CAT III 1000 V	
Size (HxWxL)		5.3 cm x 5.3 cm x 19.3 cm	
Weight		604 g	

Recommended Accessories TPAK TL220 SureGrip™ Industrial Test Lead Set See page 139 Magnetic Meter Hanger See page 147 80PK-22 **I400S** SureGrip™ Immersion Temperature Probe AC Current Clamp See page 141 See page 143 **80AK-A** Thermocouple Adapter *See page 143* AC285 SureGrip™ Alligator Clips See page 140 TL175 TLK289 TwistGuard™ Test Leads Meter Hanger See page 140 SureGrip™ Industrial Test Lead Set See page 139 **TP175** TwistGuard™ FTP-1 SureGrip™ Fused Test Probe Set Test Probes See page 140 See page 140

Included Accessories

Test Leads with 4mm Lantern Tips, AC175 Alligator Clips, 80BK-A Temperature Probe, CD, AA Batteries and User Manual.

Ordering Information

FLUKE-233

TL224

SureGrip™ Silicone Insulated Test Leads See page 139

C101

Hard Case

See page 145

Remote Display **Digital Multimeter**

C35

Soft Carrying Case See page 144

C781

Meter Case

See page 144

Fluke 117, 115 and 113 True-RMS **Digital Multimeters**



Fluke 115

Fluke 117 Electrician's Multimeter with **Non-Contact Voltage**

The Fluke 117 is for electricians working in commercial and non-commercial premises (like hospitals and schools). It includes extras like non-contact voltage detection for faster and safer operation.

Fluke 115 Field Service Testing Multimeter

An everyday multimeter for technicians, the 115 is for electrical and electronic testing in field service, industrial, and applications where more than the basic functions simplify work.

- VoltAlert[™] technology for integrated non-contact voltage detection (117)
- AutoVolt feature for automatic AC/DC voltage selection (117)
- LoZ: Low input impedance prevents false readings due to "ghost voltage" (117)
- Large display and white LED backlight to work in poorly lit areas more effectively
- Compact ergonomic design for one-handed operation
- Min/Max/Avg to record signal fluctuations
- Compatible with optional magnetic hanger (TPAK) for hands free operation
- Current measurement 20 A (30 seconds momentary; 10 A continuous)
- Resistance, continuity, frequency and capacitance



Fluke 113





Fluke 113 Utility True-RMS Digital Multimeter

- Basic electrical and utility multimeter
- VCHEK™ LoZ low impedance measurement function to simultaneously test for voltage or continuity
- True-RMS for accurate AC measurements on non-linear loads
- Record signal fluctuations using the Min/Max function
- Diode and capacitance measurements
- Integral holster with probe holders for easy storage
- Auto and manual ranging for added user functionality
- Meets CAT IV 600 V standards for a higher level of safety

For more information, go to www.fluke.com/au/113

Features

Features	117	115	113
VoltAlert™ detector	•	_	_
AutoVolt/LoZ	•	_	LoZ
Analogue bargraph	•	•	•
Large backlit digital display	•	•	•
True-RMS for accurate measurements on non-linear loads	•	•	•
Min/Max recording	•	•	•
Display hold	•	•	•
3-1/2 digits	•	•	•
6000 counts	•	•	•
CAT III 600 V safety rated	•	•	•
Three-year warranty	•	•	•

Specifications

Functions	117	115	113	Accuracy
Volts AC/DC	600 V	600 V	600 V	0.5 % + 2
Current AC/DC	10 A	10 A	_	1.0 % + 3
Resistance	40 MΩ	40 MΩ	60 kΩ	0.9 % + 2
Capacitance	1 nF to 9,999 μF	1 nF to 9,999 μF	_	1.9 % + 2
Diode test	Yes	Yes	Yes	_
Frequency	5 Hz to 50 kHz	5 Hz to 50 kHz	_	0.1 % + 2

Recommended Accessories SureGrip™ Industrial Test Lead Set See page 139 Magnetic Meter Hanger TwistGuard™ Test See page 140 Soft Carrying Case See page 144 **Recommended Kits** Buy more. Save more Fluke 117/323 Electricians

Included Accessories

Multimeter Combo Kit

For more details see page 134

TL175 Test Leads, AC175 Alligator Clips, Manual Information Pack

Ordering Information

FLUKE-113 **Utility True RMS** Digital Multimeter

FLUKE-115 True RMS Digital

Multimeter

FLUKE-117 Adv. Electrical

True RMS Multimeter FLUKE-117/323 Electrical Combo Kit

Fluke 116 and 114 Digital Multimeters

HVAC/R and electrical troubleshooting















Fluke 116 Multimeter with Temperature and Microamps

The Fluke 116 is for heating, ventilation and air conditioning (HVAC) engineers. It includes temperature measurement and microamp current ranges to quickly troubleshoot HVAC problems.

Fluke 114 Electrical Multimeter

The Fluke 114 is for electrical troubleshooting and straightforward 'go/no-go' in residential/ commercial testing. It has all the basic functions plus a special feature to prevent false readings caused by ghost voltage.

- Built in thermometer for HVAC applications (116)
- Microamps to test flame sensors (116)
- AutoVolt: Automatic AC/DC voltage selection (114)
- LoZ: Helps prevent false readings due to ghost voltage
- Min/Max/Avg to record signal fluctuations
- Resistance, continuity, frequency and capacitance
- Large white LED backlight to work in poorly lit
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger

Features

Features	116	114
Temperature	•	_
Microamps	•	_
Frequency	•	_
Capacitance	•	_
Diode test	•	_
AutoVolt/LoZ	•	•
Analogue bargraph	•	•
Large backlit digital display	•	•
True-RMS for accurate measurements on non-linear loads	•	•
Min/Max recording	•	•
Display hold	•	•
3-1/2 digits	•	•
6000 counts	•	•
CAT III 600 V safety rated	•	•
Three-year warranty	•	•

Specifications

Functions	Range	Best accuracy
Volts AC/DC	600 V	0.5 % + 2
Current AC/DC (116 only)	600.0 μΑ	1.0 % + 2
Temperature (116 only)	+400 °C	1.0 % + 18
Resistance	40 ΜΩ	0.9 % + 2
Capacitance (116 only)	1 nF to 9,999 μF	1.9 % + 2
Frequency (116 only)	5 Hz to 50 kHz	0.1 % + 2

Recommended Accessories

Fluke 116



80AK-A

80PK-22 SureGrip™ Immersion Temperature Probe See page 143







Pipe Clamp Temperature Probe See page 143

80PK-27 SureGrip™ Industrial Surface Probe See page 143

Recommended Kits

Buy more, Save more



Fluke 116/323 HVAC Combo Kit



Fluke 116/62 MAX+ HVAC **Technician's Combo Kit**

For more details see page 134

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Manual Information Pack

Ordering Information

FLUKE-114

Electrical True RMS Digital Multimeter

FLUKE-116

HVAC True RMS Digital Multimeter

FLUKE-116/323 HVAC and Clamp

Meter Combo Kit

FLUKE-116/ 62 MAX +

HVAC Multimeter and Infrared Thermometer Kit

Fluke 77IV Digital Multimeter



Fluke 77IV

Versatile multimeter for field service or bench repair

The Fluke 77IV Digital Multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that is easier to view.

- Wide 1000 V measurement range
- Average responding AC measurements
- 0.3 % accuracy
- 10 amps continuous
- Frequency and capacitance
- Resistance and continuity
- Large display
- Backlight for work in dim areas
- Min/Max to record signal fluctuations
- Integral holster with probe holders
- Free your hands with the optional TPAK magnetic hanger
- Auto and manual ranging
- Battery Life: 400 hours typical
- Weight: 0.42kg
- Size (HxWxD): 185mm x 90mm x 43mm











Specifications

Function	Maximum	Max. resolution	Accuracy
Voltage DC	1000 V	1 mV	±(0.3%+1)
Voltage AC	1000 V	1 mV	±(2.0%+2)
Current DC	10 A	0.01 mA	±(1.5%+2)
Current AC	10 A	0.01 mA	±(2.5%+2)
Resistance	50 ΜΩ	0.1 Ω	±(0.5%+1)
Capacitance	9,999 μF	1 nF	±(1.2%+2)
Frequency	99.99 kHz	0.01 Hz	±(0.1%+1)

Accuracies are best accuracies for each function.

General Specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 90 %. Accuracy specifications take the form of \pm ([% of Reading] + [Counts]).

V Maximum voltage between any terminal and earth ground	1000 V
Surge protection	8 kV peak per IEC 61010
W Fuse for mA input	440 mA, 1000 V FAST Fuse
W Fuse for A input	11 A, 1000 V FAST Fuse
Display	Digital: 6,000 counts, updates 4/sec
Bar Graph	33 segments, updates 32/sec
Frequency	10,000 counts
Capacitance	1,000 counts
Operating altitude	2,000 metres
Storage altitude	12,000 metres
Operating temperature	-10 °C to + 50 °C
Storage temperature	-40 °C to + 60 °C
Temperature coefficient	0.1 X (specified accuracy/°C (< 18 °C or > 28 °C)
Electromagnetic compatibility (EN 61326-1:1997)	In an RF field of 3 V/M, accuracy = specified accuracy except in temperature: specified accuracy ± 5 °C
Relative humidity (maximum non-condensing)	90 % to 35 °C; 75 % to 40 °C; 45 % to 50 °C
Battery life	400 hours
Size (HxWxL) and Weight	185mm x 90mm x 43mm; 420 grams
Safety compliance	ANSI/ISA S82.02.01, CSA C22.2-1010.1, IE 61010 to 1000 V Measurement Category III, 600 V Measurement Category IV
Certifications	CSA, TÜV (EN61010), UL, ∏, (N10140), VDE



Included Accessories

Test Leads with 4mm Lantern Tips, 9V Battery (installed), Manual Information Pack.

Ordering Information

FLUKE-77-4 Digital Multimeter

Fluke 88V Automotive Multimeter



Fluke 88V



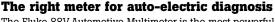












The Fluke 88V Automotive Multimeter is the most powerful automotive multimeter ever offered by Fluke. In addition to having all standard multimeter features like the ability to measure voltage, current, continuity, and resistance, the 88V can perform diode test and pulse width measurements.

This meter can take current measurements up to 20 A for 30 seconds and 10 A continuously. The optional magnetic hanger lets you attach the meter to most steel surfaces for easy set-up and viewing. The 88V is designed to be used in high energy environments like those found on hybrid vehicles.

- 0.1 % DC accuracy
- 4-1/2 digit mode for precise measurements (20,000 counts)
- Measure up to 1000 V AC and DC
- Current measurements up to 10 A, 20 A for up to 30 seconds
- Built-in thermometer for temperature measurements when you need them (temperature probe included)
- Resistance, continuity and diode test
- RPM measurements with inductive pickup (included)
- Millisecond pulse width measurements for fuel injectors
- Magnetic hanger to attach meter to the vehicle and free your hands for other tasks
- Min/Max/Average recording with Min/Max Alert to capture variations automatically
- Peak Min/Max to record transients as fast as 250 μs
- Relative mode to remove test lead resistance from low ohms measurements
- Auto and manual ranging for maximum flexibility
- $\textbf{Autohold}^{\text{\tiny{TM}}} \text{ to capture stable readings with only one touch of}$ the leads
- Large display digits and two-level bright white backlight for increased visibility
- Analogue bar-graph to track changing or unstable signals
- Input Alert provides audible warning against wrong use of input jacks

Specifications

DCV	Maximum Voltage: 1000 V Accuracy: Fluke 88 V: ± (0.1 % + 1) Best Resolution: Fluke 88 V: 0.01 mV
ACV	Maximum Voltage: 1000 V Accuracy: Fluke 88 V: ± (0.5 % + 2) AC Bandwidth: Fluke 88 V: 5 kHz Best Resolution: 0.01 mV
DC Current	Maximum Amps: 10 A Amps Accuracy: Fluke 88 V: ± (0.4 % + 2) Best Resolution: Fluke 88 V: 0.001 mA
AC Current	Maximum Amps: 10 A Amps Accuracy: Fluke 88 V: ± (1.2 % + 2) Best Resolution: 0.001 mA
Resistance	Maximum Resistance: 50 M Ω Accuracy: Fluke 88 V: \pm (0.4 % + 1) Best Resolution: 0.1 Ω
Capacitance	Maximum Capacitance: 9,999 μF Accuracy: ± (1 % + 2) Best Resolution: 0.01 nF
Frequency	Maximum Frequency: 200 KHz Accuracy: ± (0.005 % + 1) Best Resolution: 0.01 Hz
Duty Cycle	Maximum Duty Cycle: 99.9 % Accuracy: within 2 % per KHz + 0.1 % Best Resolution: 0.1 %
Temperature Measurement	-200.0 °C to 1090 °C, 1.0 % excluding probe
80BK Temperature Probe	-40 °C to 260 °C, 2.2 °C or 2 % whichever is greater
Conductance	Maximum Conductance: 60.00 nS Accuracy: ± (1.0 % + 10) Maximum Resolution: 0.01 nS
Operating Range	Operating Temperature: -20 °C to 55 °C Storage Temperature: -40 °C to 60 °C
Size and Weight	5.2 cm x 9.8 cm x 20.1cm, 624 g

Recommended Accessories





Automotive Test Lead Kit

TLK282 Deluxe Automotive Test Lead Kit See page 146





90I-610S 1A to 600A AC/DC Current Probe See page 146







PV350 Pressure Vacuum Module See page 146

TL82TL82 Automotive Pin
& Socket Adapter Set
See page 146



Soft Carrying Case See page 144

Recommended Kits

Buy more, Save more



Fluke 88V/A Automotive **Multimeter Combo Kit**

For more details see page 134

Included Accessories

High-impact Holster, Test Leads, User Manual and Quick Reference Guide

Ordering Information

FLUKE-88-5/A

Automotive Multimeter

FLUKE-88-5/A KIT

Automotive Multimeter Combo Kit

Fluke PRV240 Proving Unit





Fluke PRV240





Unique, compact and convenient

The Fluke PRV240 Proving Unit is a portable, pocket-sized, battery-powered voltage source. It is unique in that it sources stable AC and DC voltages for both LoZ and HiZ instruments.

The Fluke PRV240 proving unit provides a safe and easy method for verifying proper operation of your test tool before attempting to test for either an energised source or a de-energised source without the need for cumbersome PPE, or in cases where no known voltage source is available. Your environment may still require minimal PPE such as hard, safety glasses or earplugs when using a proving unit.

The PRV240 reduces the risk of shock and arc flash by validating the functionality of test tools without placing yourself in a potentially hazardous electrical environment.

- Sources both AC and DC steady-state voltage supplies 240 V DC/AC
- A single LED indicates functionality, making this unit a simpleto-use solution for verification of your test tool
- Compatible with both high impedance or low impedance multimeters, clamp meters or two pole testers
- Voltage is sourced through recessed contacts that are activated when tested probes are inserted to avoid accidental contact
- Includes Magnetic Hanging Strap
- Long battery life 5,000 tests per set of four AA batteries

Specifications

Output voltage	240 V AC RMS or DC	± 10 % ≥ 1 MΩ	
	LoZ >3 kΩ load	60 V AC typical 50 V AC RMS minimum	
LED power indicator	Turns on when output voltage	is present	
Battery	4 AA Alkaline batteries NEDA	24 A IEC LRO3	
Battery life	5000 (5-second duration) test $(3 \text{ k}\Omega)$ load	cycles with >1 M Ω load, 300 tests minimum with	
Operating temperature	-10 °C to +50 °C		
Operating humidity	0 % to 90 % (0 °C to 35 °C)	0 % to 70 % (35 °C to 55 °C) Operating altitude	
Operating altitude	2000 m		
Dimensions	11.7 cm x 7.4 cm x 2.8 cm, Pollution Degree 2		
Weight	0.23 kg includes batteries		
Safety	IEC61010-1, IEC61010-2-030		
Warranty	One-year		



Recommended Accessories



TPAKMagnetic Meter Hanger
See page 147

Fluke PRV240 Applications







Included Accessories

TPAK Hanging Strap, 4 AA Batteries, Instruction Sheet

Ordering Information

PRV240 Proving Unit

Fluke 8846A, 8845A and 8808A **Precision Bench Multimeters**



Fluke 8846A



Fluke 8845A



Fluke 8808A







Fluke 8846A/8845A 6.5 Digit **Precision Multimeters**

These digital multimeters perform the functions you would expect to see in a multifunction DMM, including measuring volts, ohms and amps. Basic V DC accuracy of up to 0.0024 %, 10 A current range, and a wide ohms range give you an unbeatable combination of measurement capability.

Extend the meters' utility even more with their graphical display modes, including Trendplot™ paperless recorder mode, statistics and histograms-features you won't find on other multimeters

- 6.5 digit resolution
- Up to 0.0024 % accuracy
- Graphical analysis modes: TrendPlot, Histogram and Statistics
- Dual measurement inputs: front/rear
- Dual measurement display
- Wide measurement ranges
- IEEE, LAN, RS-232 interfaces
- USB memory device port (8846A)
- TL2X4 wire measurement technique
- Three-year warranty
- · 17025 accredited report of calibration included

Fluke 8808A 5.5 Digit Multimeter

The Fluke 8808A multimeter has a broad range of functions, measuring volts, ohms and amps with a basic V DC accuracy of 0.015 %. The meter is easy to use and include innovative functions to simplify routine testing and precision 4 wire resistance measurements.

- 5.5 digit resolution
- Up to 0.015 % accuracy
- Dual measurement display
- Sensitive DC leakage current ranges
- Front panel setup keys
- TL2X4 wire measurement technique
- Three-year warranty

Specifications

	8808A	8845A	8846A
Display	Dual	Dual, gr	raphical
Resolution (digits)	5.5	6	.5
Measurements	V AC, V DC, I DC, I AC, Ω, Cont, Diode	V AC, V DC, I DC, I	AC, Ω, Cont, Diode
Basic V DC accuracy (% Reading + % Range)	0.015 + 0.003	0.0035 + 0.0005	0.0024 + 0.0005
Advanced measurements/ functions	2x4 wire ohms, freq, i-Leakage dedicated setup keys	2x4 wire ohms, freq, period	2x4 wire ohms, freq, period, capacitance, temp (RTD)
Math	Null, dBm, dB, Min, Max	Null, dBm, dB, Min, Max,	Ave, Std Deviation, MX+B
Analysis	Limit Compare	Limit Compare, TrendPl	ot, Histogram, Statistics
USB memory device port	No	No	Yes
Interfaces	RS-232, USB via optional adapter	RS-232, IEEE-488.2, LAN	, USB via optional adapter
Safety rating	CAT I 1000 V, CAT II 600 V	CAT I 1000 V	, CAT II 600 V

Recommended Accessories



TL2X4W-TWZ 2x4-Wire Ohms Tweezers Test Leads

TL2X4W-PTII

2x4-Wire Ohms Test Lead





Y8846D Rack Mount Kit Dual

884X-CASE

Sample Screens

Fluke 8846A/8845A



Built-in TrendPlot graphically plots extent of drift and intermittent events.



Critical measurement statistics are conveniently displayed together.

Included Accessories

LCI Line Power Cord, Test Lead Set, Spare Line Power Fuse, Programmers Manual/ User Manual on CD-ROM, 884X-USB USB to RS232 Cable Adapter, FVF-BASIC FlukeView® Forms Software Basic Version.

Ordering Information

FLUKE 8808A 5.5 Digit Multimeter

FLUKE 8808A/SU 5.5 Digit Multimeter (Software + Cable)

6.5 Digit Precision FLUKE 8845A Multimeter

FLUKE 8845A/SU 6.5 Digit Precision Multimeter

(Software + Cable) FLUKE 8846A 6.5 Digit Precision

Multimeter

FLUKE 8846A/SU 6.5 Digit Precision

Multimeter (Software + Cable)

Calibration & Service Agreement units also available.



CLAMP METERS

FLUKE ®

Clamp Met

Clamps Selection Guide

For more information, go to www.fluke.com/au/clamps

State Stat		Resid	Residential/Commercial Electrical	ıercial		General	General Purpose		Industrial Electrical	HVAC/R	High-end Industrial/Utility	-end 1/Utility	iFlex" Accessory		ы	Fluke Connect*	**		Leakage
1		323	324	325	365	373	374FC		376FC/381	902	353	355	i2500-10/ i2500-18	a3000FC	a3001FC	a3002FC1	a3003FC	a3004FC	360
1	leasurements	•																	•
1	current	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•
Part	C VOIRS	•	•	•	•	•	•	•	•	•		•				•			
	Calatitut	•	•	•	•	•	•	•	•	•		•							
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1	illionics, power, data logging						Ontional	Ontional	- / - / • STOP C)					● / - / -	1-1-	• 1-1-	• 1-1-	1-1-	
1	" IFlex" Flexible Current Probe						Optional	Optional	Optional						•				
1	mote display								•/-										
1	shlight/torch				•														
1	splay																		
Solution	splay hold	•	•	•	•	•	•	•	•	•	•	•							•
A	acklight		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	
	w opening	30 mm	30 mm	30 mm	18 mm	32 mm	34 mm	34 mm	34 mm	30.5 mm	58 mm	58 mm	7.5 mm coil	34 mm	254 mm		64mm	4.5mm	40 mm
Part	rrent range AC RMS	0 to 400.0 A	0 to 400.0 A	0 to 400.0 A	0 to 200.0 A	0 to 600.0 A	0 to 600.0 A	0 to 600.0 A	0 to 999.9 A	0 to 600.0 A	0 to 1400 A	0 to 1400A	0 to 2500 A	0.5 to 400 A	0.5 to 2500 A	0.5 to 600 A			0 to 60 A
Tube-No.	curacy AC current (50/60 Hz)	2,00% + 5 counts	1,50%	2,00%	2 % + 5 counts	2 % + 5 counts	2 % + 8 counte	2 % + 5 counts	2 % + 5 counts	2 % + 5 counte	1.5 %	1.5 % + 5 counts	3 % + 5 counts	2% + 5 counts	3% + E counts	AC: 1.0% ±3 counts			1 % + 5 comts
DC Color	Resnonse	Trie-RMS	True_RMS	True_RMS	True_BMS	Thus_BMS	True-RMS	True-RMS	Trio-RMS	True-RMS	True_RMS	True_BMS	True-BMS	True-RMS	True-RMS	This_RMS			Averaging
Dig column	o riceported	CMIL DITT	Civil Con II	CINT COLUMN	CINIT-ON II	Ciant_on II	own-onti	CIMIL-DILI	TIME-TIME	TIME-TIME	inc-ma	11 nc-1 nn	Civil Court	CMILI-DILL	CMILL-DIII	CMILI-DILI		0.05 to 20.99 m.A	уметавши
Charle C	irrent range DC			0 to 400A	0 to 200 A		0 to 600.0 A	0 to 600.0 A	0 to 999.9 A	0 to 200 µĀ	0 to 2000 A	0 to 2000 A				0 to 1000 A	1 to 2000 A	21.0 mA to 99.9 mA	
ACC One 600.0V One 600.0V <td>ccuracy DC current</td> <td></td> <td></td> <td>2 % ± 5 counts</td> <td>2 % ± 5 counts</td> <td></td> <td>2 % ± 5 counts</td> <td>2 % ± 5 counts</td> <td>2 % ± 5 counts</td> <td>1 % ± 5 counts</td> <td>1,5 % ± 5 counts</td> <td>1,5 % ± 5 counts</td> <td></td> <td></td> <td></td> <td>0,5 % ± 3 counts</td> <td>2 % ± 5 counts</td> <td>0.2 % ± 5 counts 1 % ± 5 counts</td> <td></td>	ccuracy DC current			2 % ± 5 counts	2 % ± 5 counts		2 % ± 5 counts	2 % ± 5 counts	2 % ± 5 counts	1 % ± 5 counts	1,5 % ± 5 counts	1,5 % ± 5 counts				0,5 % ± 3 counts	2 % ± 5 counts	0.2 % ± 5 counts 1 % ± 5 counts	
voltage 1.5% bounts <	oltage range AC	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 1000.0 V	0 to 1000.0 V	0 to 1000 V	0.009		0 to 600.0 V							
DC OLO GOOO V OLO GOOO O	ccuracy AC voltage	1,5% ± 5 counts	1,5% ± 5 counts	1,5% ± 5 counts	2 % ± 5 counts	1 % ± 5 counts	1,5 % ± 5 counts	1,5 % ± 5 counts	1,5 % ± 5 counts	1 % ± 5 counts		1 % ± 5 counts							
voltage 1% <t< td=""><td>ltage range DC</td><td>0 to 600.0 V</td><td>0 to 1000 V</td><td>0 to 600.0 V</td><td></td><td>0 to 1000 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	ltage range DC	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 1000 V	0 to 600.0 V		0 to 1000 V							
Sign	ccuracy DC voltage	1 % ± 5 counts	1 % ± 5 counts	1 % ± 5 counts	2 % ± 5 counts	1 % ± 5 counts	1 % ± 5 counts	1 % ± 5 counts	1 % ± 5 counts	1 % ± 5 counts		1 % ± 5 counts							
Soo Haz Soo	esistance range	0 to 4000 Ω	0 to 4000 Ω	0 to 4000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 6000 n	0 to 60 kn	0 to 9999 Ω		0 to 400 kg							
4 SENGLY CATH GOOV, CATH GOOV	requency measurement range			500 Hz				200 Hz	200 Hz		5 to 1000 Hz	5 to 1000 Hz	200 Hz						
2 2 2 3 1	uto off	•	•	•		•	•	•	•	•	•	•		•	•	•	•	•	•
2 2 2 3 1	Varranty and safety																		
CATH 600 V, CATH 600 V, CATH 200 V, CATH 600 V, CATH 600 V, CATH 1000	arranty (years)	2	\rightarrow		33	က	က		9	8	m	m	8		m	m	-	-	-
	ategory ratings (EN61010-1)	CAT III 600 V, CAT IV 300 V			CAT III 600 V	CAT III 600 V, CAT IV 300 V	000 V, 600 V		CAT III 1000 V, CAT IV 600 V	CAT III 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V		CATIII 1000 V, CATIV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V		CAT III 300 V

1 Clamp not included

Fluke 381 Remote Display True-RMS AC/DC Clamp Meter with iFlex™



Fluke 381













The world's most advanced clamp meter

The Fluke 381 True-RMS AC/DC Clamp Meter combines iFlex flexibility with remote reading capability for the ultimate in innovation and safety. Now one technician can do jobs that would otherwise require two people. Clamp the Fluke 381 around a conductor, remove the display and walk across the room to operate controls or remove protective equipment, all while watching real-time readings.

The iFlex™ Flexible Current Probe (included) expands the measurement range to 2500 A AC while providing increased display flexibility. With a cord that runs 6 feet, you can finally measure those tight spaces, awkward sized conductors and disorganised wires.

- Remote display reads measurements up to 9.1 metres away
- iFlex Flexible Current Probe included, 18 inch circumference
- 2500 A AC current measurement with iFlex
- 999.9 A AC and DC current measurement with fixed jaw
- 1000 V AC and DC voltage measurement
- Frequency measurement to 500 Hz
- 60 kΩ resistance measurement
- Min/Max/Avg and inrush recording
- CAT IV 600 V, CAT III 1000 V
- Three-year warranty

See detailed specifications chart on page 27.

Fluke 365 Detachable Jaw True-RMS AC/DC Clamp Meter



Fluke 365













Where rugged meets reliable

The Fluke 365 True–RMS AC/DC Clamp Meter offers a small, detachable jaw with 1.2 metres of coil that makes it easy to take and read measurements in tight or hard-to-reach places.

- 200 A AC and DC current measurement with detachable jaw
- 600 VAC and DC voltage measurement
- Detachable jaw makes accessing wires and viewing the display easier
- Built in flashlight/torch allows for easy illumination and identification of wires
- CAT III 600 V
- Compact design fits in your hand and can be used while wearing protective equipment
- State of the art signal processing allows for use in noisy electrical environments while providing stable readings
- Large, easy to read, backlight display automatically sets the correct measurement range so you do not need to change switch positions while taking a measurement
- Three-year warranty

See detailed specifications chart on page 27.



Included Accessories

18-inch iFlex™ Flexible Current Probe (Fluke 381 only), Test Leads, Soft Carrying Case, Instruction Card, Safety Information Sheet, Two AA Alkaline Batteries.

Ordering Information

FLUKE 381

Remote Display
True-RMS AC/DC
Clamp Meter with iFlex™

FLUKE 365

Detachable Jaw True-RMS AC/DC Clamp Meter

Fluke 370 Series Clamp Meters





Be ready for anything

Our family of True-RMS Clamp Meters provides a range of state of-the-art features to meet even the most demanding job requirements.

All four of the clamp meters have improved base features such as a large, backlit display, true-RMS standard, CAT IV safety rating and a durably constructed body. Additionally, the 376 FC, 375 FC and 374 FC are a part of the Fluke Connect® family of wireless test tools and are compatible with the iFlex™ Flexible Current Probe (included with the 376 FC, sold separately for the 375 FC and 374 FC), and provide increased measurement readings to 1000 A and 1000 V AC and DC.



Fluke 376 FC with iFlex™













Fluke 375 FC Fluke 374 FC Fluke 373

Specifications

Functions	Range	373	374 FC	375 FC	376 FC
Current AC	0 to 600.0 A	2% ± 5 counts	2% ± 5 counts	2% ± 5 counts	-
	0 to 999.9 A	-	-	-	2% ± 5 counts
Current DC	0 to 600.0 A	-	2% ± 5 counts	2% ± 5 counts	-
	0 to 999.9 A	-	-	-	2% ± 5 counts
Voltage AC	0 to 600.0 V	1% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts
Voltage DC	0 to 600.0 V	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	-
	0 to 1000 V	-	-	-	1% ± 5 counts
Resistance range	-	0 to 6000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 60 kΩ
Jaw opening	-	32 mm	34 mm	34 mm	34 mm
Max. wire size	-	750 MCM	750 MCM	750 MCM	750 MCM
Frequency measurement range	-	-	-	500 Hz	500 Hz

Fluke iFlex™ Flexible Current Probe



Unprecedented measurement flexibility

The iFlex Flexible Current Probe expands the measurement range of select Fluke Clamp Meters to 2500 A AC while providing increased display flexibility, improved wire access and the ability to measure awkward-sized conductors. Available in 18 inch and 10 inch coil sizes.

- Compatible to Fluke 374 FC, 375 FC, 376 FC and 381
- CAT IV 600 V, CAT III 1000 V
- 7.5 mm coil diameter allows measurement in tight spaces
- 1.8 m cable
- Three-year warranty

Visit www.fluke.com/au/clamps for additional specifications.

Recommended Accessories





SureGrip™ Electrical Test Lead Set See page 139

Small Soft Case See page 144





TL175 TwistGuard™ Test Leads See page 140

I2500-18 18 inch iFlex™ Flexible Current Probe See page 29

For use with the Fluke 375 and 376





AC285 SureGrip™ Alligator Clips See page 140

TL224 SureGrip™ Silicone Insulated Test Leads See page 139

Fluke Connect® Enabled



Fluke 376 FC, 375 FC, and 374 FC are now a part of the Fluke Connect family of wireless test

- Trend measurements, pinpoint intermittent faults and transmit results wirelessly by connecting your meter to your phone via Fluke Connect Measurements app
- Create and send reports right from the field
- Stay safely away from the arc flash zone through Bluetooth connectivity

Included Accessories

18-inch iFlex™ Flexible Current Probe (Fluke 376FC only), Test Leads, Soft Carrying Case, Instruction Card, Safety Information Sheet, Two AA Alkaline Batteries.

Ordering Information

FLUKE 373

True-RMS AC

Clamp Meter

FLUKE 374FC

True-RMS AC/DC FC Clamp Meter

FLUKE 375FC

True-RMS AC/DC FC Clamp Meter

FLUKE 376FC

True-RMS AC/DC FC Clamp Meter

with iFlex™

i2500-10 iFlex™ Flexible Current

Probe 25 cm

i2500-18 iFlex™ Flexible Current Probe 45 cm

Fluke 902 True-RMS HVAC Clamp Meter

















Just for our HVAC pros

HVAC (heating, ventilation, air conditioning) technicians require a service tool that can consistently keep up with their demands. The Fluke 902 expands the existing line of quality Fluke clamp meters by delivering the features necessary to diagnose and repair HVAC systems. Combined with true-RMS technology and a CAT III 600 V rating, the Fluke 902 helps technicians do their jobs safely and accurately.

- Designed for HVAC applications with capacitance, DC current (μA) and temperature measurements
- Small body and jaws fit perfectly in your hand and into tight places
- Handy "Display Hold" button keeps measurements on the display
- Meter controls are positioned so current measurements can be done with one hand (index finger on clamp opening lever and thumb on rotary switch)
- Three-year warranty

See detailed specifications chart on page 27.

Functions	Range	902
Current AC	0 to 600.0 A	2% ± 5 counts
Current DC	0 to 200.0 μA	1% ± 5 counts
Voltage AC	0 to 600.0 V	1% ± 5 counts
Voltage DC	0 to 600.0 V	1% ± 5 counts
Resistance range	-	0 to 9999 Ω
Jaw opening	-	30.5 mm
Max. wire size	-	750 MCM

Recommended Accessories Fluke 902 C781 Meter Case See page 144 AC220 Alligator Clips See page 140

Fluke 360 AC Leakage Current Clamp Meter



Fluke 360





The unique jaw design of the Fluke 360 eliminates the influence of adjacent current conductors and measures leakage current down to 1 μA for monitoring of insulation. The ergonomic design of the Fluke 360 ensures easy measuring. The measuring clamp fits into tight spaces and the wide display angle clearly shows the measurement result. The Data Hold button keeps the measured value on the display after removing the clamp for the measured conductor.

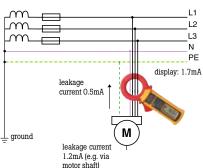
Current measurement

- Automatic ranging within the manually selected mA or range
- Ranges 3/30 mA and 30/60 A
- \bullet Current resolution 1 $\mu\text{A}/0.01$ mA and 0.01 A/0.1 A
- Measurement of leakage protectives
- Advanced shielding to ensure accurate results when measuring near other conductors
- Frequency range 50 and 60 Hz
- Jaw size: 40 mm maximum conductor diameter
- Auto power off with audible warning buzzer

See detailed specifications chart on page 27.

Functions	Range	Resolution	Accuracy
Current AC	3mA 30mA	0.001A 0.01mA	1% ± 5 counts
	30A 60A	0.01A 0.1A	1% ± 5 counts (0~50A) 5% ± 5 counts (50~60A)
Frequency	50 and 60Hz	-	-





Included Accessories

Test Leads, Temperature Probe (Fluke 902 only), Soft Carrying Pouch and User Manual

Ordering Information

FLUKE-902 True RMS HVAC Clamp Meter

FLUKE-360 Leakage Clamp Meter

Fluke 320 Series True-RMS Clamp Meters



Fluke 325













Go to work with the best

True-RMS measurements and optimised ergonomics make the 320 Series True-RMS Clamp Meters the best general troubleshooting tools for commercial and residential electricians. The 323, 324 and 325 are designed to verify the presence of load current, AC voltage and continuity of circuits, switches, fuses and contacts. These small and rugged clamp meters are ideally suited for current measurements up to 400 A in tight cable compartments. The Fluke 325 also offers DC current and frequency measurements.

- 400 A AC current measurement (AC and DC current; 325 only)
- 600 V AC and DC voltage measurement
- True-RMS AC voltage and current for accurate measurements on non-linear signals
- Resistance measurement to up to 40 k Ω with continuity detection
- Temperature and capacitance measurement (324 and 325 only)
- Frequency measurement (325 only)
- Slim, ergonomic design
- Large, easy to read backlight display (324 and 325 only)

Regidential/Commercial Electrical

CAT IV 300 V/CAT III 600 V safety rating

Light Industrial

- Hold button
- Two-year warranty
- · Soft carrying case

C43 Small Soft Case See page 144 TL223-1 SureGrip™ Electrical Test Lead Set See page 139 L210 Probe Light and Extender See page 147



Specifications

	Residential/Commercial Electrical Light Industrial			
	323	324	325	
Measurements				
AC current	•	•	•	
AC voltage	•	•	•	
Resistance	•	•	•	
Continuity	•	•	•	
DC volts	•	•	•	
DC current			•	
True-RMS	•	•	•	
Frequency			•	
Min/Max/Avg			•	
Temperature		•	•	
Capacitance		•	•	
Display				
Display hold	•	•	•	
Backlight			•	
Specifications				
Jaw opening		30 mm		
Max wire size	600 MCM			
Current range AC RMS		0 to 400.0 A		
Accuracy AC current (50/60 Hz)	2.0 % ± 5 digits	1.5 % ± 5 digits	2.0 % ± 5 digits	
AC response		True-RMS		
Current range DC	-	-	0 to 400 A	
Accuracy DC current	-	-	2.0 % ± 5 digits	
Voltage range AC		0 to 600.0 V		
Accuracy AC voltage		1.5 % ± 5 digits		
Voltage range DC		0 to 600.0 V		
Accuracy DC voltage		1 % ± 5 digits		
Resistance range	0 to 4	Ω 000	0 to 40 kΩ	
Frequency measurement range	-	-	500 Hz	

Included Accessories

Test Leads, Soft Case, User Manual

Ordering Information

FLUKE-323 True RMS Clamp Meter
FLUKE-324 True RMS Clamp Meter
FLUKE-325 True RMS Clamp Meter

Fluke 350 Series AC/DC True-RMS **Clamp Meters**



Versatile, professional and accurate

Confidently take reliable readings with the True-RMS Fluke 353 and 355 Clamp Meters-the tools of choice for high current clamp-on amp meter measurements up to 2000 A.

- Reliably handle a wide range of high-current applications with 2000 A AC+DC True-RMS, 1400 A AC, and 2000 A DC
- Large 58 mm jaw
- Inrush current measurement
- High voltage measurement of 1000 V AC+DC True-RMS, 600 V AC, and 1000 V DC (355 only)
- Resistance to 400 KΩ (355 only)
- Continuity beeper (355 only)
- Frequency measurement to 1 KHz
- Selectable low-pass filter mode
- Min/Max/Avg
- Large display with backlight











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Fluke 355

Features True-RMS measurements Display backlight • Motor start-up current Min/Max/Average Voltage AC/DC

Specifications

Continuity measurement with beeper

Resistance measurement

Functions	Range	353	355
Current AC/DC	0-40.00 A	1.5% ± 15 counts	1.5% ± 15 counts
	0-400.0 A	1.50/ 1.5	1.50/ 1.5
	0-2000 A; 1400 AC RMS	1.5% ± 5 counts	1.5% ± 5 counts
Crest Factor		2.4	2.4
Voltage AC/DC	0-4.000 V		1% ± 10 counts
	0-40.00 V		
	0-400.0 V		10/
	0-600 V AC RMS		1% ± 5 counts
	0-1000 V DC		
Resistance	0-400.0 Ω		
	0-4.000 kΩ		
	0-40.00 kΩ		$1.5\% \pm 5$ counts
	0-400.0 kΩ		
Continuity beeper	Appr. ≤ 30 Ω		
Frequency	5.0Hz to 100.0Hz		0.2% ± 2 counts
	100.1Hz to 999Hz		0.5% ± 5 counts

Power Supply	6 x 1.5V AA NEDA 15A or 1EC LR6
Battery life	100 hours (with typical usage, backlight off)
Size (HxWxD)	300 mm x 98 mm x 52 mm
Jaw opening	58 mm
Weight	0.814 kg
Warranty	Three year

Recommended Accessories Fluke 355 80TK Thermocouple Mo See page 143 Module Test Leads See page 140 **L215**SureGrip™ Electrical Test Lead Set See page 139 Test Lead Set See page 139 C345 Large Soft Case Gear Tool Box See page 145 See page 144

Included Accessories

Fluke 353: C43 Soft Meter Case, 6 AA Batteries, User Manual

Fluke 355: C43 Soft Meter Case, 6 AA Batteries, TL224 SureGrip™ Silicone Test Lead Set, TP2 Slim Reach Test Probe Set (2 mm), AC285 SureGrip™ Alligator Clip Set, User

Ordering Information

FLUKE-353 True RMS AC/DC

Clamp Meter

FLUKE-355 True RMS AC/DC

Clamp Meter



BATTERY TESTERS

Fluke BT500 Series Battery Analysers













More battery tests. Less time.

Fluke's BT500 Series Battery Analysers cover a broad range of battery test functions ranging from DC voltage and resistance tests to full condition testing using an automated string function testing and the test probe integrated infrared temperature measurement system. 500 Series Battery Analysers are designed for measurements on stationary batteries of all types.

- The world's fastest battery measurements- reduce time of a typical battery measurement with 50% from 8 seconds to 4 seconds.
- Unique CATIII 600V safety rating
- Key measurements: Battery resistance, DC and AC voltage, DC and AC current, ripple voltage, frequency and battery temp.
- Sequence measurement mode: Automatic or manual sequence testing of battery strings with automatic measurement storage including voltage, resistance and temperature (with BTL21 intelligent test probe).
- Optimised user interface: Quick, guided setup ensures you're capturing the right data every time.
- Intelligent test probe set (BT520 and BT521): Integrated LCD display, infrared temperature measurement (BT521 only), verbal audio feedback and captures voltage readings and temperature logging automatically or via integrated save button.

Recommended Accessories AC/DC Current Clamp See page 142 **Intelligent Test Probe**





Integrated LCD display

Specifications

Functions	Range	Resolution	Accuracy	BT510	BT520	BT521
	3 mΩ	0.001 mΩ	1 % + 8	•	•	•
Battery resistance ¹	30 mΩ	0.01 mΩ	0.8 % + 6	•	•	•
Battery resistance	300 mΩ	0.1 mΩ	0.8 % + 6	•	•	•
	3000 mΩ	1 mΩ	0.8 % + 6	•	•	•
	6 V	0.001 V	0.09 % + 5	•	•	•
V DC	60 V	0.01 V	0.09 % + 5	•	•	•
V DC	600 V	0.1 V	0.09 % + 5	•	•	•
	1000 V	1 V	0.09 % + 5			•
V AC (45 Hz to 500 Hz with 800 Hz filter)	600 V	0.1 V	2 % + 10	•	•	•
Frequency (displayed with Vac and Aac) ²	500 Hz	0.1 Hz	0.5 % + 8	•	•	•
AC voltage ripple	600 mV	0.1 mV	3 % + 20	•	•	•
(20 KHz Max)	6000 mV	1 mV	3 % + 10	•	•	•
A DC/A AC (with accessory Fluke i410)	400 A	1 A	3.5 % + 2			•
Temperature	0 °C to 60 °C	1 °C	2 °C			•
Meter mode	999 red	ords for each	measurement	position w	ith time st	amp
Sequence mode	(Each		ofiles and 100 s up to 450 bat			ıp

General Specifications	
Size (HxWxD) and Weight	220 x 103 x 58 mm, 850 g
Screen dimensions	77 x 56 mm
Interface	USB mini
Operating temperature	0 °C to 40 °C
Lithium-ion battery charging temperature	0 °C to 40 °C
Operating humidity	Non-condensing (10 °C), <=80 % RH (at 10 °C to 30 °C), <=75 % RH (at 30 °C to 40 °C)
IP rating	IP40
Radio	FCC Class A
Vibration requirements	MIL-PRF-28800F: Class 2
Drop test requirements	1 metre
Temperature coefficients	Add 0.1 x specified accuracy for each degree C above 28 °C or below 18 °C
Safety compliance	600 V CAT III

The measurement is based on AC injection method. The injected source signal is <100 mA, 1 kHz.

² Trigger level V AC: 10 mV, A AC: 10 Å

Included Accessories

4-wire Test Pin (set), BTL10 Basic Test Lead (set), TL175 TwistGuard™ Test Leads with Adapter, L300 Attachable LED Flashlight (2) (BT520 and BT521 only), BTL20 Intelligent Test Probe Set, with extender (no temperature sensor) (BT520 only), BTL21 Intelligent Test Probe Set, with extender and temperature sensor (BT521 only), i410 AC/DC Current Clamp (BT521 only), BP500 Lithium-ion Battery, BC500 AC Charger, Mini-USB Cable, Shoulder Strap, Belt Strap, Magnetic Hanging Strap, FlukeView® Battery Management Software, Soft Carrying Case, Spare Fuses (2), Battery Tags (BT520 and BT521 only)

Ordering Information

FLK-BT510 Basic Battery Analyser FLK-BT520 Battery Analyser FLK-BT521 Advanced Battery **Analyser**

Contact your local distributor for price and availability.

www.fluke.com/au/wtb



ELECTRICAL TESTERS

Fluke 9040 and 9062 Phase Rotation Indicators

Take the guesswork out of phase/motor rotation measurements



Fluke 9040 Phase Rotation Indicator

The Fluke 9040 is effective for measuring phase rotation in all areas where three-phase supplies are used to feed motors, drives and electrical systems. The Fluke 9040 is a rotary field indicator and can provide clear indication of the 3 phase via an LCD display and the phase rotation direction to determine correct connections. It allows rapid determination of phase sequence and has a voltage (up to 700 V) and frequency range suitable for commercial and industrial applications. Test probes supplied with the instrument have a variable clamping range for safe contact, especially in industrial sockets.

- 3 phase indication
- Indication of phase rotation
- Clear LCD display
- · No battery required

Fluke 9062 Motor and Phase Rotation Indicator

The unique Fluke 9062 provides rotary field and motor rotation indication with the benefits of contactless detection.

- 3 phase indication
- Indication of phase rotation
- Indication of motor rotation direction
- · Contact free determination of the rotation
- · direction of running motors

Made for commercial and industrial environments, the Fluke 9062 provides rapid indication of 3 phase rotation using test leads supplied or can be used to determine motor rotation on synchronous and asynchronous 3 phase motors. The contactless detection is ideal for use on motors where the shaft is not visible. Test probes supplied with the instrument have a variable clamping range for safe contact, especially in industrial sockets.

Specifications

	9040	9062	
Voltage range	40 - 700 V	Up to 400 V	
Phase display	-	120 - 400 V AC	
Frequency range	15 - 400 Hz	2-400 Hz	
Operating time	Continuous	Continuous	
Size (HxWxD)	124 mm x 61 mm x 27 mm	124 mm x 61 mm x 27 mm	
Power supply	from unit under test	1 x 9V	
Weight	0.20 kg	0.15 kg	
Warranty	Two Year		

TLK290 Flexible Socket Probe Set See page 139 C25 Meter Case See page 144

Fluke 9062 Applications



Determine the presence of phase sequence of multiphase electrical supplies.



Determine the rotation of running motors by placing the instrument on the motor casing.



Check the correct rotation of motors prior to connection.

Included Accessories

Fluke 9040: Alligator Clips - Black (3)Standard Test Probes - Black (3) Flexible Test Probes - Black (3) User Manual

Fluke 9062: Alligator Clips - Black (3) Flexible Test Probes - Black (3) Test Leads - Black (3) 9V Battery, User Manual

Ordering Information

FLUKE-9040 Phase Rotation

Indicator

FLUKE-9062 Motor and Phase

Rotation Indicator

Fluke T5 Series Electrical Testers and VoltAlert™ family



Fluke T5-600

Fluke T5-1000



Fluke LVD1A

Fluke LVD2

Fluke 1AC-II

Fluke T5 Series Voltage, **Continuity and Current Testers**

The Fluke T5 Electrical Testers let you check voltage, continuity and current with one compact tool. With the T5, all you have to do is select volts, ohms, or current and the tester does the rest. OpenJaw™ current lets you check current up to 100A without breaking the circuit. Its tough test leads stow neatly in the back of the tester, making it easy to tote the T5 in your tool pouch. Detachable SlimReach™ test probes are customised for national electrical standards. The test leads accept optional accessories such as clips and specialty probes. The optional H5 holster lets you clip the T5 onto your belt. Available in 600V and 1000V models.

- Excellent front-line troubleshooting and measurement tool
- Available in 600 V and 1000 V models
- Digital display
- OpenJaw™ current measurement
- Rotary switch selects volts, amps and ohms functions
- Heavy-duty test leads

Fluke VoltAlert™ Family

The next generation VoltAlert™ AC noncontact voltage testers from Fluke are easy to use. Electricians, maintenance, service and safety personnel, and homeowners can quickly test for energised circuits in the workplace or at home.

Certified up to CAT IV 1000 V.











Specifications

Functions	T5-1000	T5-600
Measure AC/DC voltage	1000 V	600 V
Measure AC current (average)	100 A	100 A
Measure continuity	< 25 Ω	< 25 Ω
Measure resistance	1000 Ω	1000 Ω
DC polarity indicator	Yes	Yes
Detachable probe tips with optional probe tips styles	Yes	Yes
Digital display	Yes	Yes
Safety rating	1000 V Overvoltage CAT III	600 V Overvoltage CAT III
Warranty	Two-year	Two-year

^{*}Voltage levels will vary depending on country of intended use.

Functions	1 AC-II	LVD1A	LVD2
Voltage range	90 V AC to 1000 V AC	40 to 300 V AC	90 V AC to 600 V AC
Audible alert	•	-	•
Flashlight	_	•	•
On/Off	•	_	•

Recommended Accessories





See page 145

T5-RLS Replacement Test Leads





See page 139

C520A Leather Holster See page 145

Recommended Kits

Buy more, Save more



Fluke T5-600/62 MAX+/1AC-II **Infrared Thermometer and Electrical Tester Kit**



Fluke T5-H5-1AC-II Electrical **Tester Kit**

For more details see page 135

Included Accessories

Fluke T5-600 & T5-1000: Detachable Probes and Instruction Sheet

Ordering Information

FLUKE T5-1000 Electrical Tester FLUKE T5-H5-**Electrical Tester** Kit with Holster 1AC KIT and 1AC **FLUKE T5-600/ Electrical Tester**

FLUKE 1AC-A1-II

62 MAX+/1AC

FLUKE T5-600

IR Thermometer. Voltage Detector VoltAlert™

Electrical Tester

Voltage Detector FLUKE LVD1A Volt Light **FLUKE LVD2** Volt Light

Fluke 2042 Cable Locator



Receiver





The Fluke 2042 is a professional general purpose cable locator. It is ideal for tracing cables in walls and underground, locating fuses/breakers on final circuits and locating interruptions and short-circuits in cables and electrical floor heating systems.

It can also be used for tracing metallic water and heating pipes. The unit is supplied as a complete kit comprising of a transmitter and receiver in a purposemade carry case. The receiver also incorporates a torch function for working in dimly lit locations.

- For all applications (live or dead cables) without additional instruments
- Set includes a transmitter and a receiver
- Proven digitally coded sender signal guarantees clear signal identification
- Transmitter with LCD-display for transmitting level, transmitting code and external voltage
- Receiver with a backlight LCD-display for level of receiving signal, code of receiving signal and live voltage indication
- · Automatic or manual adjustment of receiving signal sensitivity
- Switchable acoustic receiving signal
- Auto-Power-Off
- · Additional torch lamp function for working in dark environments
- Additional transmitters are available for extension or to distinguish between several signals.

Specifications

	Transmitter	Receiver	
Voltage Measurement Range	12V, 50V,120V, 230V, 400V		
Frequency Range	060 Hz		
Output signal	125 kHz		
Voltage	Up to 400V AC/DC		
Tracing depth cable location		02.5m wall/underground cables	
Main voltage detection		00.4m	
Operating Temperature	0 to 40°C	0 to 40°C	
Storage Temperature	-20°C to +60°C	-20°C to +60°C	
Humidity (Without Condensation)	Max. 80% relative	Max. 80% relative	
Operating Altitude	Up to 2000 m	Up to 2000 m	
Electrical Safety	EN 61010-1		
Overvoltage Category	Cat. III 300 V		
Voltage Test	•	•	
Indication of polarity	•	•	
Resistance measurement			
Batteries	6 pc Batteries 1.5V	1 pc Battery 9V	
Size (HxWxD)	190 mm x 85 mm x 50 mm	250 mm x 65 mm x 45mm	
Weight	0.45 kg	0.36 kg	
Warranty	Two Years		

Recommended Accessories



2042T

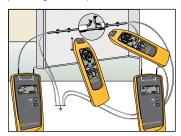
Fluke 2042 Applications



Location of fuses/breakers and assignment to circuits



Tracing of underground cables (max. depth $2.5\ m$)



Precise location of cable interruptions with additional transmitter

Included Accessories

TL27 Heavy Duty Test Lead Set (2), TP74 Lantern Tip Test Probe Set, AC285 Alligator Clip Set, Soft Carrying Case, Hard Case

Ordering Information

FLUKE-2042

Cable Locator (Transmitter & Receiver)

FLUKE-2042T Cable Locator

Cable Locator
Transmitter

loool diatributor t

Fluke T Series Voltage and **Continuity Testers**



Fluke T130







Fluke T90 Fluke T110, T130, T150

Rugged, high-quality testers for fast test results the way you need them

Fluke's family of Two-Pole Voltage Testers are built with state-of-the art measurement and safety technology. These testers offer everything you expect from Fluke and a little bit more.

Rugged, high-quality construction is built to last. This includes a heavy duty molded case, a thicker cord with

wear indicator, sturdy battery case, and well fitting and durable probe protector.

- Fast test results the way you need them, with large, easy-to-use buttons, bright backlights, and clear audible and physical indicators designed for any work situation.
- Enhanced ergonomic design feels good in your hand, is easy to use (even with gloves on) and quick, secure probe docking.
- Compliant with regulation HSE GS $\bar{3}8$ (tip caps) and IEC EN 61243-3: 2010





Fluke T90



Features Backlit LED indicator Backlit LCD Digital Display LCD LCD Continuity test - visual results • • Continuity test - audible results with on/off with on/off with on/off Vibratory indicator under load with on/off with on/off with on/off Display Hold Voltage Test • • • Indication of polarity • Resistance measurement • Switchable Load • • • Single pole test for phase detection Rotary field indicator • • • • • Probe tip protection Voltage display with discharged batteries • • • Electrical torch function •

•

Specifications

Wear indicator test lead wire

	T90	T110	T130	T150
Voltage AC/DC	12V - 690V	12V - 690V	6V - 690V	6 V - 690 V
Continuity		0 -	400 kΩ	
Frequency	0 - 60 Hz		0 - 400 Hz	
Phase rotation	-		100 V - 690	V
Resistance measurement	-	-	-	Up to 1999 Ω
Response time (LED ladders)	< 0.1 s			
200 kΩ input impedance	Current draw 3,5 mA @ 690 V, Current draw 1,15 mA @ 230 V			
7k Ω input impedance (with load buttons pressed)	- current draw 30 mA @ 230 V		@ 230 V	
Safety rating	CAT II 690V CAT III 690V CAT II 690V			
IP rating	IP54	IP64	IP64	IP64
Battery type	Alkaline supplied. usable with 1.2 V NiCD or NiMH rechargeable batteries			
Size (HxWxD)	100 mm x 250 mm x 125 mm			
Weight	1.3 kg			
Warranty	Three Years			



Included Accessories

2 AA Batteries and Instruction Sheet

Ordering Information

FLUKE-T90 Voltage/Continuity Tester

Voltage/Continuity FLUKE-T110 Tester with Switchable Load

FLUKE-T130 Voltage/Continuity Tester with LCD Switchable Load

FLUKE-T150 Voltage/Continuity Tester with LCD,

OHMS, Switchable Load

Fluke 1000FLT Fluorescent Light Tester



Fluke 1000FLT

The most complete lamp tester helps save you time, reduce costs

The Fluke 1000FLT allows you to perform 5 tests with 1 compact tool. If your job requires keeping large numbers of fluorescent lights shining, the Fluke 1000FLT is an indispensable tool. This tester is a real time and money saver.

- Saves time and reduces costs: Perform all 5 essential lighting tests in under 30 seconds to pinpoint problems and verify operation when done
- Survives on-the-job handling: Drop-tested to survive from a two metre ladder
- Easy to use: Bright indicator light plus audible alert
- Built to last, easy to maintain: The Fluke 1000FLT's extendable test rod is all metal and very rugged. But should the need arise, this test rod is easily replaced
- · Long life: Backed with a three-year warranty

Save time, reduce costs.

The Fluke 1000FLT offers 5 essential lighting tests:

- 1 Lamp test: test bulb without removing from fixture.
- Ballast test: easily determine if ballast is working.
- Non-contact voltage: quickly check for voltage presence.
- Pin continuity test: tests if filaments have continuity.
- Ballast-type test: determine if ballast is electronic or magnetic without taking fixture apart—identify energy wasting ballasts.













Specifications

Test Specifications	
Lamp Test Max Output	3000 V peak-peak
Ballast Test	20 kHz
Ballast Type Discriminator	≤3 m distance
Pin Continuity Test	< 1 kΩ
NCV (VoltAlert™)	85 to 277 V AC, 45 to 67 Hz, ≤10 cm distance
Temperature	Operating -10 °C to +50 °C, Storage -40 °C to +60 °C
Relative Humidity	85 % maximum
Safety rating	IEC 61010-1, pollution degree 2

Mechanical & General Specifications	
Size	21.5 cm x 3.0 cm x 6.5 cm
Weight	0.37 kg
Battery type	4 x AA alkaline IEC LR6
Battery life	40 hours
Auto Power Off	20 minutes after non-use
Low Battery Indicator	Power button light blinks when power is low (typically 85 % of capacity depleted)
Operating altitude	< 2000 m
Electromagnetic Environment	EN 61326-1: Portable
Resistance to impact	2 metre drop
Warranty	3 years

Fluke 1000FLT Applications



Lamp test: Test bulb without removing from fixture



Non-contact voltage: Quickly check for voltage presence



Pin continuity test: Test if filaments have continuity

Included Accessories

4 AA Alkaline Batteries, H1000 Holster, Quick Reference Guide.

Ordering Information

FLUKE-1000FLT

Fluorescent Light Tester



LASER DISTANCE METERS

Fluke 424D, 419D and 414D Laser Distance Meters



Fluke 424D





Complies with FDA 21 CFR 1040.10,11 except for deviations pursuant to Laser Notice No 50.

Introducing the next generation of Fluke Laser Distance Meters

Measure farther, with greater accuracy, in more situations.

- Instant measurements up to 100m: Just point, click and done
- Measure with greater accuracy: Up to ± 1mm, no scales to interpret or misread
- Do the work of two: Instead of holding the tape, your helper can do other jobs
- The most advanced 2 laser technology for distance measurement
- Speed up the job: Easily measure hard-to-access areas, like high ceilings, without climbing a ladder
- Keep it on the level: New inclination sensor on the Fluke 424D helps with leveling, height tracking, measuring around obstacles
- Reduce estimating errors let the meters do the math: Find area and volume. Easily add and subtract distances. Use Pythagoras calculations for height
- Improved battery life: Automatic shut-off feature
- Three-year warranty

The Fluke 424D and 419D Laser Distance Meters additionally offer:

- · Improved visibility with backlit screen
- Ability to measure up to 80 m for 419D, 100 m for 424D
- · Tripod mode allows you to mount to a tripod for measuring long distances
- Stake out function
- Enhanced Pythagoras calculation for determining distance indirectly from three other measurements
- Audible keypad feedback
- · Storage of the last twenty measurements for quick recall of distance
- · Strong environmental protection with IP54 (water spray and dust proof) sealing

The Fluke 424D Laser Distance Meter additionally offers:

- Inclination sensor for taking measurements in hard to reach areas
- Compass provides a "heading" for distance measurement
- Automated end-piece correction: when measuring from an edge or corner, a built-in sensor detects the position of this bracket and automatically changes the reference point

Features

	424D	419D	414D
Maximum measurement distance	100 m	80 m	50 m
Accuracy	± 1 mm	± 1 mm	± 2 mm
Battery life (number of measurements)	5000	5000	3000
Area measurement	Yes	Yes	Yes
Volume measurement	Yes	Yes	Yes
Pythagoras calculations	Full	Full	1+2
Plus and minus calculations	Yes	Yes	Yes
Measurement storage	20 complete displays	20 complete displays	5 results
Backlight	Yes	Yes	No
Minimum/Maximum	Yes	Yes	Yes (Pyth)
Audible keypad feedback	Yes	Yes	-
Tripod mount	Yes	Yes	-
Corner angle measurement	Yes	-	-
Stake out	Yes	Yes	-
Dust and splash proof	IP54	IP54	IP40
Compass	Yes	-	-
Inclination sensor	Yes	-	-
Display	4 line	3 line	2 line
Automated end-piece correction	Yes	-	-



Buy more, Save more



Fluke 414D/62MAX+ Laser Distance Meter/Infrared Thermometer Combo Kit

For more details see page 136

Fluke 419D Application



Included Accessories

2 AAA Batteries, User Manual on CD, Quick Reference Guide, Vinyl Carrying Pouch

Ordering Information

FLUKE-414D Laser Distance Meter, 50m

FLUKE-419D Laser Distance Meter, 80m

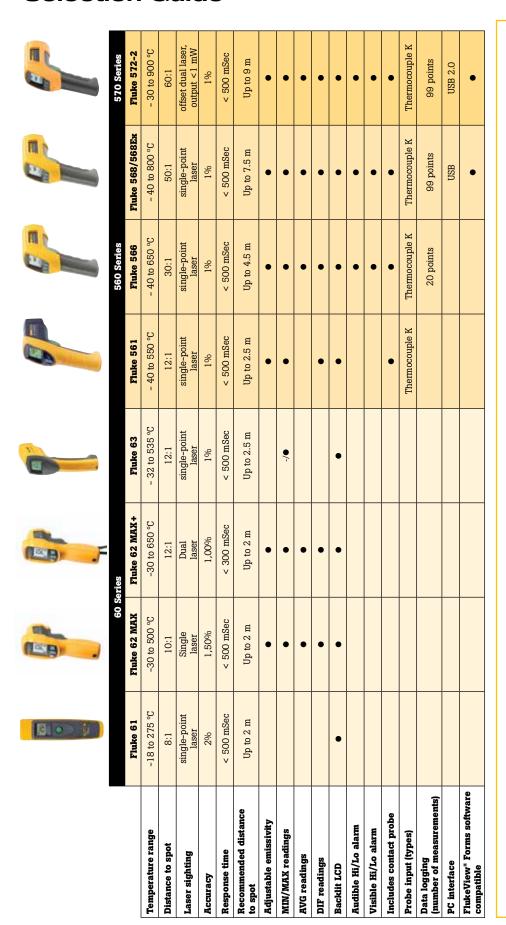
FLUKE-424D Laser Distance Meter, 100m

FLUKE-414D Laser Distance Meter/ Infrared Thermometer Combo Kit



THERMOMETERS

Digital Infrared Thermometer Selection Guide



Recommended Applications



Plant/facilities maintenance

Preventive and predictive maintenance Energy audits Vehicle and fleet maintenance programs Faulty electrical/circuit connections Petrochemical/hazardous locations Motors, pumps and bearings



Heating/ventilation/air conditioning/refrigeration

Leaky ductwork Thermostats Temperature balancing Steam distribution systems Compressor lines



Manufacturing processes

Molding temperature measurement Printing, paper and converting Thermoforming plastics Electronics Paint curing/drying Food Chemical and pharmaceutical



Safety and protection

Fire localisation Hazardous materials Faulty ballasts Search and rescue Smoldering embers Equipment maintenance

Fluke 560 Series Infrared Thermometers



Fluke 561

English

Deutsch

Español

Français

Português

中文

Enter Back







(IIII)

Fluke 561, 566 and 568 Infrared and **Contact Thermometers**

With a straight-forward user interface and soft-key menus, the Fluke 561, 566 and 568 make even complex measurements easy. With just a few pushes of a button you can easily adjust emissivity, start data logging, or turn on and off alarms. With a rugged, easy-to-use design, the Fluke 561, 566 and 568 can stand up to tough industrial, electrical, and mechanical environments.

- Measure up to 800 °C
- Easily access advanced features with the soft-key buttons and graphical display
- Measure smaller objects from further away
- Compatibility with most type K thermocouples
- Confidently measure more surfaces, with adjustable emissivity and built-in materials table
- Log and download measurements for reporting
- Two levels of backlight (566, 568)
- Audible and visual alarms alert you to measurements outside of set limits
- Min/Max/Dif functions
- Includes KTC bead probe
- 1% measurement accuracy
- Versatile interface with six languages

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Choose your language

Select the measurement



See complete measurement details in seconds

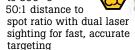
Specifications

	561	566	E60/E60 E
			568/568 Ex
Infrared temperature range	-40 °C to 535 °C	-40 °C to 650 °C	-40 °C to 800 °C
Accuracy	(Greater of \pm 1 % or \pm 1 °	C
Distance to Spot (D:S)	12:1	30:1	50:1
Sighting		Laser point	
Typical distance to target	Up to 2.5 m	Up to 4.5 m	Up to 7.5 m
Probe type		Thermocouple K	
Contact temperature range	-40 °C to 550 °C	-270 °C to 1372 °C	
Number of on-board memory locations	_	20	99
PC download and software	_	_	FlukeView® Forms
Soft-key feature menu navigaton	_	Yes	
Min/Max/Avg/Dif	Min/Max/Dif	Min/Max/Avg/Dif	
Material type adjustment (emissivity)	Hi/Med/Lo	Material table or 0.1 to 1.00 by 0.01	
Two levels of backlight	_	Yes	
High and low alarms	_	High and low alarms	
Hands-free logging	_	_	Yes
Battery	2 AA		
Included case	Hard case (except 561/R and 561/P) Hard case		case
Warranty	Two-year		

Speciality Model

Fluke 568Ex Intrinsically Safe Infrared **Thermometer**





- Display resolution 0.1 °C of reading
- · Adjustable emissivity and predefined emissivity table
- Safety Certification ATEX/ IECEx for Class1. Div 1 and Div 2 or Zone 1 and 2 hazardous environments

See Intrinsically Safe products on page 132

Recommended Accessories



Included Accessories

80PK-22 SureGrip™ Immersion Probe

See page 143

Thermocouple K-type Velcro Pipe Probe (561 only), K-type Thermocouple Bead Probe (566 & 568 only), FlukeView® Forms Software (568 only), USB Cable (568 only), Hard Carrying Case, 2 AA Batteries and User Manual with Measurement Guide

C1600

Gear Tool Box See page 145

Ordering Information

FLUKE-561	HVACPro Infrare Thermometer
FLUKE-566	IR Thermometer
FLUKE-568	IR Thermometer
FLUKE-568 Ex	Intrinsically Safe

Contact your local distributor for price and availability. www.fluke.com/au/wtb

IR Thermometer

Fluke 572-2 High Temperature **Infrared Thermometer**



Fluke 572-2







The best choice when things are really hot

The Fluke 572-2 Infrared Thermometer is the one product you can use in high temperature industrial environments all around the world. This is the best choice for when you need accurate results for high temperature readings from a long distance. Combined with ease of use and Fluke's ruggedness and reliability you can't go wrong.

- Measure -30 °C to 900 °C
- 60:1 distance to spot ratio with dual laser sighting for fast, accurate targeting
- 12 or 24 hour clock
- Last reading Hold (20 seconds)
- High and low temperature alarm
- Data storage and review (99 data sets)
- Compatible with standard mini-connector K-type thermocouples, including ones you already own and have installed
- Current Temperature plus MAX, MIN, DIF, AVG temperature displays
- Adjustable emissivity and predefined emissivity table
- Infrared and thermocouple temperature on backlit display
- FlukeView® Forms documenting software



Specifications

Infrared temperature range	-30 °C to 900 °C
Infrared accuracy (calibration geometry with ambient temperature 23 °C \pm 2 °C)	\geq 0 °C: \pm 1°C or \pm 1 % of the reading, whichever is greater \geq -10 °C to <0 °C: \pm 2 °C <-10 °C: \pm 3 °C
Infrared repeatability	± 0.5 % of reading or ± 0.5 °C, whichever is greater
Display resolution	0.1 °C
Distance:Spot	60:1 (calculated at 90 % energy)
Minimum spot size	19 mm
Laser sighting	Offset dual laser, output < 1 mW
Spectral Response	8 μm to 14 μm
Response Time (95 %)	<500 ms
Emissivity	Digitally adjustable from 0.10 to 1.00 by 0.01 or via built-in table of common materials
Hi/Low alarms	Audible and two-color visual
Min/Max/Avg/Dif	Yes
Switchable celsius and fahrenheit	Yes
Backlight	Two levels, normal and extra bright for darker environments
Trigger lock	Yes
Data storage	99 points
Display	Dot matrix 98 x 96 pixels with function menus
Communication	USB 2.0
K-type thermocouple input temperature range	-270 °C to 1372 °C
K-type thermocouple input accuracy (with ambient temperature 23 °C ± 2 °C)	< -40 °C: \pm (1 °C + 0.2 °/1 °C) ≥ -40 °C: \pm 1 % or 1 °C, whichever is greater
Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to 60 °C
Size (HxWxD)	177 x 164 x 52 mm
Weight	0.322 kg
Power	2 AA Batteries
Battery life	8 hours with laser and backlight on; 100 hours with laser and backlight off, at 100 % duty cycle (thermometer continuously on)
Warranty	Two years

Included Accessories

K-type Thermocouple Bead Probe, USB 2.0 Computer Interface Cable, FlukeView® Forms Documenting Software, Hard Carrying Case, Getting Started Guide (print) and User Manual (CD).

Ordering Information

FLK-572-2

Infrared Thermometer

Fluke 62 MAX and 62 MAX+ Infrared Thermometers



Fluke 62 MAX+





- Dust and water-resistant: IP54 rated for dust/water resistance
- Rugged: 3m drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Dual lasers: The 62 MAX+ has dual rotating lasers to help you identify area to be measured. The measurement area is the spot between the dots
- Min/Max/Avg/Dif: Displays the minimum, maximum or average temperature, or the difference between two measurements
- Alarm: Hi and Lo alarms for rapid display of measurements outside the limits

	62 MAX	62 MAX+	
Temperature	-30 °C to 500 °C	-30 °C to 650 °C	
range			
Accuracy	± 1.5 °C or ± 1.5 % of	± 1.0 °C or ± 1.0 % of	
	reading, whichever is	reading, whichever is	
	greater	greater	
	-10 °C to 0 °C: ± 2.0	-10 °C to 0 °C: ± 2.0	
	-30 °C to -10 °C: ±3.0	-30 °C to -10 °C: ± 3.0	
Emissivity	0.10 to 1.00		
Optical resolution	10:1 (calculated at 90 % energy)	12:1 (calculated at 90 % energy)	
Compliance	EN/IEC 61010-1: 2001		
Laser safety	FDA and EN 60825-1 Class II		

Recommended Accessories

Fluke 60 Series





Soft Carrying Case See page 144

Electrical Tester Holster See page 145

Recommended Kits

Buy more, Save more

Fluke T5-600/62 MAX+/1AC-II Infrared Thermometer and Electrical Tester Kit

For more details see page 135

Fluke 116/62 MAX+ Technician's Combo Kit

For more details see page 134

Fluke 414D/62 MAX and Laser Distance Meter/Infrared Thermometer Combo Kit

For more details see page 136

Fluke 60 Series Infrared Thermometers



Fluke 61 Fluke 63

The Fluke 60 Series Non-Contact Thermometers are the ideal professional diagnostic tools for quick and accurate temperature measurements.

These handheld tools are ideal for measuring surface temperatures of rotating, hard-to-reach, electricity live or dangerously hot targets like electrical motors and – panels, and heating and ventilation systems. The laser sighting system guides measurements to the right target and in less than a second, the large temperature display provides a readout of the surface temperature.

- Laser guided sighting system for easy targeting with 1% accuracy
- Up to 12:1 optical resolution
- · Backlit display for easy reading in the dark
- Temperatures up to 535°C

Fluke 61 Fluke 63 Specifications

	61	63
Range	- 18 to 275°C	- 32 to 535 °C
Response time	< 500ms	≤ 0.5 second
Resolution	0.2 °C	0.2 °C
Repeatability (% of reading)	± 2% or ± 2 °C	\pm 0.5% or \leq \pm 1 °C
Accuracy: (assumes ambient operating temperature of 23°C)	For targets at: -18 to -1°C: ± 3°C -1 to 275°C: ± 2% of reading or ± 2°C	For targets at: -32 to -26°C: ± 3°C -26 to -18°C: ± 2.5°C -18 to 23°C: ± 2°C 23°C -510°C: ± 1%, of reading or ± 1°C For targets above 510°C: ± 1.5% of reading
Typical distance to target	Up to 1 m	Up to 2 m
Emissivity	Fixed at 0.95	Fixed at 0.95
Battery Life	12 hours with laser & backlight on	10 hours with laser & backlight on
Size (mm) and Weight	184 x 45 x 38, 0.227 kg	200 x 160 x 55, 0.320 kg

Included Accessories

Fluke 62 MAX and 62 MAX+: 2 AA Batteries and Instruction Sheet

Fluke 60 Series IR Thermometers: 9V Battery (61), Hard Carrying Case and 9V Batteries (63)

Ordering Information

FLUKE-61	IR Thermometer
FLUKE-62 MAX	Single Laser IR Thermometer, 10:1 Spot
FLUKE-63	IR Thermometer
FLUKE-62 MAX PLUS (+)	Dual Laser IR Thermometer, 12:1 Spot
FLUKE 62 MAX+ /323/1AC	IR Thermometer Clamp Meter and Voltage Detector Kit
FLUKE-414D/ 62 MAX+ KIT	Laser Distance Meter/Infrared Thermometer Combo Kit

FLUKE-T5-600/ Electrical Tester
62 MAX+/1AC IR Thermometer,
Voltage Detector

Kit

1587KIT/62 2-in-1 ADV Elec **MAX+** Kit with 62MAX+ i400 AC Current

Clamp

Fluke 50 Series II Thermometers

Lab accuracy in a field thermometer



Fluke 53 II B









The Fluke 50 Series II Contact Thermometers offer fast response and laboratory accuracy in a rugged handheld

- Laboratory accuracy: ± (0.05 % + 0.3 °C)
- Large backlit dual display
- Min/Max/Ava
- Electronic offset function maximises overall accuracy
- Supports a wide range of thermocouple types
- Temperatures displayed in °C, °F, or Kelvin (K)

Powerful data logging capabilities

The Fluke 53 II B and 54 II B can log up to 500 points of data to internal memory.

- User-adjustable
- recording intervals Real-time clock captures the exact event time
- Recall function lets logged data be easily reviewed
- Download data to optional FlukeView® PC software



Fluke 51 II

Fluke 52 II

Specifications

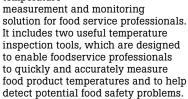
	51 II	52 II	53 II B	54 II B	
Thermocouple types	J,K,T,E	J,K,T,E	J,K,T,E,N,R,S	J,K,T,E,N,R,S	
Number of inputs	Single	Dual	Single	Dual	
Time stamp	Relative Time	Relative Time	Time of Day	Time of Day	
Splash/Dust resistant	•	•	•	•	
Dual display with backlight	•	•	•	•	
Min/Max/Avg recording	•	•	•	•	
(T ₁ -T ₂) True differential		•		•	
Data logging up to 500 points			•	•	
IR data port for interface to PC			•	•	
Compatible with FlukeView® Software			•	•	
Battery life	1000 hours typical, AA				
Size (HxWxD)	173 x 86 x 38 mm				
Weight	0.4 kg				
Warranty	Three Year				

Temperature range and accuracy					
J-type Thermocouples	-210°C to 1200°C				
K-type Thermocouples	-200°C to 1372°C				
T-type Thermocouples	-250°C to 400°C				
E-type Thermocouples	-150°C to 1000°C				
N-type** Thermocouples	-200°C to 1300°C				
R** and S-type** Thermocouples	0°C to 1767°C				
Temperature accuracy above -100°C	:				
J, K, T, E, and N-type**	± [0.05% + 0.3°C]				
R** and S-type**	± [0.05% + 0.4°C]				
Temperature accuracy below −100°C:					
J, K, E, and N-types	± [0.20% + 0.3°C]				
T-type	± [0.50% + 0.3°C]				

Speciality Model

Fluke FoodPro and FoodPro **Plus Food Safety Thermometers**

The Fluke FoodPro Thermometer Series provides a complete temperature



The Fluke FoodPro non-contact thermometer is the first line of defense against improper receiving, storage and holding temperatures. Using an infrared measurement technique, the highly accurate FoodPro quickly reads surface temperatures, allowing workers to make rapid and frequent temperature measurements - faster than contact units and without fear of cross contamination. The easy-to-see illumination light shows you the measurement area.

Included Accessories

Fluke 50 Series Thermometers: Impact Absorbing Holster, Two Bead Probe Thermocouples 80PK-1 (54 and 52 only) One Bead Probe Thermocouple, 80PK-1 (51 and 53 only)

Fluke FoodPro (FP) & FoodPro Plus (FPP): AA Battery and Quick Start Guide (FP), Built in Contact Probe, 9V Alkaline Battery, Quick Start Guide, Operator's Guide, Soft Carry Pouch

Ordering Information

FLUKE-51 II	Single Input Digital Thermometer
FLUKE-52 II	Dual Input Digital Thermometer
FLUKE 53 II B	Single Input Digital Thermometer w/ Data Logging
FLUKE 54 II B	Dual Input Digital Thermometer
FLUKE FP	FoodPro™ Food Safety Thermometer
FLUKE FP PLUS	FoodPro™ Plus Food Safety Thermometer

Fluke VT04 and VT04A Visual Infrared Thermometers



Fluke VT04



Detect Issues Instantly

Fluke Visual Infrared Thermometers combine the convenience of a spot thermometer with the visual advantage of an infrared camera creating a brand new tool category.

Compact and intuitive, the Fluke VTO4A and VTO4 Visual Infrared Thermometers blend a visual image with a heat map overlay, to help quickly identify the location of issues.

Breakthrough affordability: Half the cost of infrared cameras that require training and software.

Built-in digital camera: Every Fluke Visual Infrared thermometer has a built-in digital camera.

Exclusive thermal heat map blending overlay: Blend digital and thermal images to instantly show the exact location of the issue. Blend between 0 %, 25 %, 50%, 75 %, and full thermal with one button.

NEAR and FAR mode: Align the visual and thermal lenses to correctly identify the location of the issue

Centre measurement box: See the exact area of temperature measurement right on the screen

Temperature alarms and automated monitoring features: Identify intermittent problems by monitoring equipment over time or get alerts when a temperature is outside the expected range

SmartView® reporting software: Store up to 10,000 images per GB on included SD card and make professional reports on included professional software.

Alarm and time lapse features:

- Hi/Lo temperature alarm—Screen flashes if user-selected temperature is exceeded
- Time lapse image capture— automatically capture images
- Auto-monitoralarm-automatically capture images after a userselected temperature alarm has been triggered

No training required: Fully automatic with built-in intelligence.

True pocket size design: Forty percent smaller than entry-level infrared cameras. Hot and cold spot trackers: Automatically identifies hottest and coldest spots within field of view.

See the difference

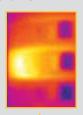
See how a traditional Infrared thermometer and an entry level infrared camera make it challenging to communicate the issue on breaker 20.



Visual inspection No issues are obvious to the naked eye.



Traditional IR Optimised for single



Entry level infrared camera Challenging to see the exact location



Visual IR Thermometer

Digital image with heat map overlay detects the exact location of the issue

Recommended Kits Buy more, Save more

Fluke VT04 Visual Infrared **Thermometer Maintenance** Combo Kit

- VT04 Visual IR Thermometer
- 1507 Insulation Multimeter



Fluke VT04 Visual Infrared **Thermometer HVAC Combo Kit**

- VTO4 Visual IR Thermometer
- 902 True RMS HVAC Clamp Meter
- 116 Digital Multimeter



Fluke VT04 Visual Infrared Thermometer Electrical Combo Kit

- VTO4 Visual IR Thermometer
- 117 Digital Multimeter
- 376 AC/DC True-RMS Clamp Meter

For more details see page 136

Included Accessories

Hard Case (VTO4), Soft Case (VTO4A) Hand Strap, Mini SD Card and Adapter, SmartView® Software on CD, Lithium-ion Battery and Micro USB Charger/Power Supply (including mains adapters) (VTO4) or 4 AA Batteries (VTO4A), Quick Start Guide, User Manual

Ordering Information

Visual Infrared FLK-VT04A Thermometer FLK-VT04 Visual Infrared Thermometer FLK-VT04-Visual Infrared MAINT-KIT Thermometer Maintenance Combo Kit FLK-VT04-Visual Infrared **HVAC-KIT** Thermometer **HVAC Combo Kit** Visual Infrared FLK-VT04-Thermometer ELEC-KIT

Contact your local distributor for price and availability. www.fluke.com/au/wtb

HVAC Combo Kit

Specifications

Key features	VTO4A VTO4					
Built-in digital camera	Yes					
Thermal heat map overlay	Yes, five blending modes					
Image optics system	PyroBlend™ Plus Optic					
Field of view	28° x	28°				
Hi-Lo temperature alarms	Ye	s				
Time lapse image capture	Ye	s				
Auto-monitor alarm	Ye	s				
Battery type	4 AA batteries Li-Ion rechargable					
Training	No training	required				
Ergonomics	Slim pocket-s	sized design				
Hot and cold markers	Ye	S				
Case	Soft Case	Hard Case				

General features				
Battery life	8 hours			
Temperature measurement range	-10 °C to +250 °C			
Temperature measurement accuracy	+/- 2 °C or +/- 2 %			
Temperature measurement	Yes, centrepoint			
Storage medium (micro SD card)	Stores up to 10,000 images per Gb (4 Gb card included)			
Infrared spectral band	6.5 μm to 14 μm			
Level and span	Auto			
Focus mechanism	Focus free, no training required with built-in intelligence			
Focus options - exlusive user selectable NEAR/FAR options	NEAR > 23 cm; FAR < 23 cm			
File format	.is2 format saved to SD card. Users can create professional reports or export images in SmartView. BMP, DPI, GIF, SPE, FIF, SPEG, JPG, PNG, TIF, TIFF			
Size	21 cm x 7.5 cm x 5.5 cm			
Weight	< 300 g			
Warranty	2 years			

SmartView® Software

Document problems

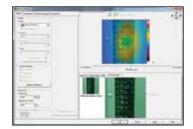
Producing a professional report with Smartview software is just as powerful as the VTO2 and VTO4 tools themselves. You will be able to communicate the issues that you've detected or document repairs that have been fixed.

Free upgrades. Free to share

We don't charge you for software upgrades. They're free for the life of the product. We enable you to share this software with others.

The smart choice

- Extensive optimisation and analysis tools with multiple viewing options
- Multiple reporting options and templates
- Enhance and analyse images quickly and easily
- Report Wizard guides you through automatic report generation
- Communicate image details with text annotation drag and drop feature
- Lifetime software upgrades, and no sharing limitations



Sample SmartView software view.

Fluke VT04 Application





INFRARED CAMERAS



8 REASONS TO CHOOSE FLUKE INFRARED CAMERAS

Superior image quality

Fluke maximises the performance of every pixel with industry leading spatial resolution to give you crisp detailed images and more accurate measurements, even when you have to take them from further distances. Patented IR-Fusion® technology with AutoBlend™ mode produces a transparent infrared and visible light image that shows brilliant detail and pinpoints the exact location of the problem making your job easier.

Fluke Connect® Tools

The largest system of connected test tools in the world. The Fluke Connect® app and connectable tools are the most comprehensive way to stay in contact with your team without leaving the field. With over 40 connectable tools, confidently diagnosing, solving and communicating problems has never been easier. See it. Save It. Share It. All the facts, right in the field.

Fluke Connect® App

With the Fluke Connect® app and enabled tools, you can collaborate with others no matter where they are. See what your team is seeing, and vice versa. Share and watch live video and readings to troubleshoot problems from any location. In addition save yourself the time and effort of going to the plant floor or back to the office every time there's a question or issue.

Best-in-class focus systems

Every infrared camera user knows that focus is the single most important aspect when conducting an infrared inspection. Without an in-focus image, temperature measurements may be off by as much as 20 degrees, making it easier to miss a problem. That's why Fluke engineered the only infrared cameras on the market with LaserSharp® Auto Focus—instantly capture an in-focus image with the touch of a button for consistently in-focus images. EVERY. SINGLE. TIME. Another option gives you optimum focus flexibility with the IR-OptiFlex® Focus System which combines focus free ease-of-use with manual focus.

Customer driven design

Our design team is on the job, in the factory and out in the field for countless hours with our customers to continually deliver better products based around your applications and how you work. The resulting intelligent 3 button menu design allows you to operate our simple, intuitive on-screen menu interface- even while wearing gloves. We pay attention to even the smallest details providing you with an LED charge indicator on your battery insuring you don't unexpectedly lose power and offering replaceable SD cards so you don't have to delete your work to add to it. Not only can you operate a Fluke infrared camera with one hand behind your back, but you may never have to open the operating manual either.

Legendary ruggedness

We test our cameras to exceed specifications, so we drop them, soak them, shock them, and shake them for hours on end. Our tools are relentless, built tough to withstand the harsh environments where you work, for years to come.

Reputation for quality

Fluke is well known for designing and building "Best in Class," top quality products. With over 65 years of experience and a line of award winning products, such as Product of the Year from Plant Engineering and the 2013 Engineering Choice Award from Control Engineering, we continue to maintain our long time reputation and commitment to quality.

Dedicated Training

Learn how to use a Fluke thermal camera to reach your full business potential. If you are interested in improving your skills, knowledge or business, we offer seminars, webinars and product training. Learn how to get started, what to do, understanding what the results mean, and then being able to identify the best solutions.

Fluke Ti Series Infrared Cameras Ranges







Performance Series

What?

Fluke TiS75, TiS65, TiS60, TiS55, TiS50, TiS45, TiS40, TiS20, TiS10 Infrared Cameras

Who?

Technicians and Contractors

Where?

The widest range of Maintenance Applications including:

- Electrical, Mechanical
- HVAC
- Building Diagnostics
- Domestic/Commercial/Industrial
 Facilities

Professional Series

What?

Fluke Ti450, Ti400, Ti300 Infrared Cameras

Who?

Professional In-house, Contract and Service Thermographers

Where?

Industrial and Commercial Areas:

- Industrial Maintenance
- Heavy Commercial Facility Maintenance
- Oil and Gas Maintenance
- Reliability Inspections

Expert Series

What?

Fluke TiX560, TiX520, TiX500 Infrared Cameras

Who?

Engineers, Researchers, Designers and Advanced Thermographers

Where?

R&D, Quality Control and Predictive Maintenance, particularly for demanding sectors like:

- Industrial
- Oil and Gas
- Utilities (Generation Transmission, Distribution)
- Electrical, Mechanical
- Medical, Biological/Sciences

Why?

Affordable and feature-rich cameras producing quality images, with easy operation for quick scans and/or intermittent inspections.

With IR-OptiFlex™ IR-Fusion® with AutoBlend™, Fluke Connect® and SmartView® software.

Why?

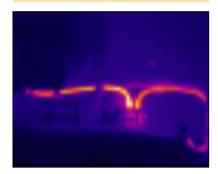
High quality images and advanced features like SuperResolution,
LaserSharp™ Auto Focus &
MultiSharp™ mode. Consistently in-focus images, on multiple objects near to far.

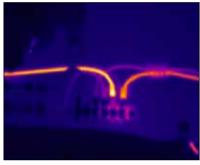
IR-Fusion® with AutoBlend™, Fluke Connect® and SmartView® software. Rugged. Easy-to-use touch screen.

Why?

Needle-sharp resolution on an extra-large 5.6 inch articulating colour TFTLCD display with daylight operation. Field swappable lenses extend applications. HD quality images give greater impact in reports. Integral camcorder.

With IR-OptiFlex™ IR-Fusion® with AutoBlend™, Fluke Connect® and SmartView® software.







Fluke Ti Infrared Cameras

Infrared Cameras: Uptime or Downtime. Your Results Matter.

Fluke strives to create infrared cameras that are intuitive and easy to use with advanced focusing features that integrate the accuracy of distance laser technology and auto focus – so you get infocus images every, single, time with LaserSharp[™] Auto Focus. Blend digital and infrared images into one clear image with Fluke patented IR-Fusion[®]. The Fluke line of infrared cameras are not just about accuracy, they are about reliability, durability, image quality and performance.

IR-Fusion $^{\scriptscriptstyle{\otimes}}$ Technology: Infrared and visual images fused together in one image

See things both ways - Infrared and visual (visible light) images fused together communicating critical information faster and easier - traditional infrared images are no longer enough.

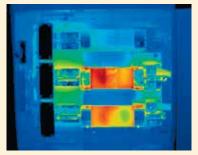
Find it, fix it, fast!

Temperature changes can indicate problems in many areas you see everyday, some include:

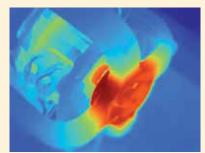
- Inside electrical distribution and service (Switch gear, panels, controls, fuses, transformers, receptacles, lighting, conductors, bus bars, motor controlcentres)
- Motors, pumps and mechanical (Electric motors and generators, pumps, compressors, evaporators, bearings, couplings, gearboxes, gaskets/seals, belts, rollers, disconnects)
- Process (Tanks and vessels, pipes, valves and traps, reactors, process insulation)
- HVAC/R (Air conditioning, heating, air handlers, refrigeration)
- Outside electrical distribution utilities (Transformers, bushings, insulators, transmission lines, other exterior conductors, service connections, disconnects, capacitor banks)



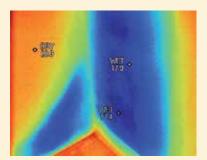
Overheating bearing cap



Three-phase switch-gear load imbalance



Overheated motor



Cool corner in a building



Fluke SmartView® Software

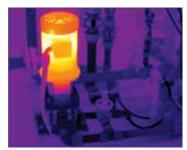
Analysis and reporting software

Everything you need for image optimisation, analysis and reporting.

View, optimise and analyse infrared video recordings

- SmartView tools and controls allow easy access to viewing and editing functions
- Step through videos frame by frame and convert frames to still images for analysis and to include in reports

The flexibility of Fluke IR-Fusion® technology



Full infrared



 $\begin{array}{l} IR\text{-Fusion}^{\tiny{\$}} \ Picture\text{-in-picture}, \\ AutoBlend^{\tiny{\texttt{TM}}} \ mode \end{array}$



IR-Fusion® with colour alarms



$$\label{eq:constraint} \begin{split} & \text{IR-Fusion}^{\text{\$}} \text{ Full visible light } - \\ & \text{viewed in SmartView}^{\text{\$}} \text{ software.} \end{split}$$



Fluke Performance Series Infrared Cameras TiS10, TiS20, TiS40, TiS45, TiS50, TiS55, TiS60, TiS65, TiS75





Fluke TiS45

Fluke TiS60



Fluke TiS50

Fluke TiS55





The lightest, most rugged and easiest-to-use professional infrared cameras around

The Performance Series Infrared Cameras offer good image quality at an affordable price. With up to 260x195 resolution, you can see more detail in every image, even from a distance - detail that could indicate a potential issue. With a rugged design and easy-to-use user interface, these cameras are ideal for troubleshooting tasks.

Every model comes standard with Fluke Connect® and a smart battery with five-segment LED charge level display, 3.5 inch (landscape) 320x240 LCD display, and a 5 megapixel industrial-performance digital camera. Reduce the amount of time it takes to get an in-focus image with manual focus (TiS75, TiS65, TiS55, TiS45) or fixed focus (TiS60, TiS50, TiS40, TiS20, TiS10) options.

Built for performance with features that help you easily and quickly identify problems before they become expensive failures.

Get improved resolution that delivers the right image quality you need to make the proper diagnosis:

- Up to 320 x 240 resolution
- Reduce the amount of time it takes to get an in-focus image with manual or fixed focus options
- Securely store and manage your images from anvwhere
 - WiFi upload to Fluke Cloud™
 - Free storage with Fluke Cloud
 - Share images in real-time with Fluke Connect
 - Removable 4GB micro SD card
 - Voice annotation
- Edit and analyse images then create and send reports from your smartphone directly from the field with Fluke Connect

Recommended Accessories





FLK-TI-SBP3





Smart Battery Charger

TI-CAR CHARGER Car Charger

FLK-BLUETOOTH

Included Accessories

Universal AC Power Adapter, Lithiumion Smart Battery (TiS75/65/60) includes 2 each and other models I each, Two-Bay Battery Charger (TiS75/65/60), USB Cable, Micro SD Card (TiS45-TiS75), Hard Carrying Case (TiS40-TiS75), Soft Transport Bag, Adjustable Hand Strap (TiS40-TiS75), Quick Reference Guide & Safety Sheet and SmartView® Software via Free Download.

Ordering Information

FLK-TiS75 30Hz Infrared Camera Manual Focus FLK-TiS75 9Hz Infrared Camera Manual Focus FLK-TiS65 30Hz **Infrared Camera Manual Focus** FLK-TiS65 9Hz **Infrared Camera** Manual Focus FLK-TiS60 9Hz **Infrared Camera Fixed Focus** FLK-TiS55 30Hz Infrared Camera **Manual Focus** FLK-TiS55 9Hz **Infrared Camera** Manual Focus FLK-TiS50 9Hz Infrared Camera **Fixed Focus** FLK-TiS45 30Hz Infrared Camera Manual Focus

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Infrared Camera

Infrared Camera

Infrared Camera

Infrared Camera

Manual Focus

Fixed Focus

Fixed Focus

Fixed Focus

Fluke TiS75 Performance Series Infrared Camera



Fluke TiS75

Easy-to-use frontline troubleshooting

Easily see potential problems with precisely blended IR and visual images-with a 5MP visual camera, 320x240 resolution (76,800 pixels), and a large 3.5 inch LCD.

Get precise focus as close as 15 cm with manual focus version. Fluke renowned diagnostic tools such as Fluke Connect® and SmartView® software included for data sharing, storage, in-depth analysis and reporting.

- In-focus quality images with the easy to use manual focus operation
- Professional quality images 320x240 resolution (76,800 pixels)
- D:S of 504:1
- Temperature measurement range –20 °C to 550 °C
- Find problems fast with exclusive IR-Fusion® Blending and PIP mode capture the details you need to analyse problems and clearly identify the location
- Smart battery system includes two lithium ion smart batteries with five-segment LED charge level display and charging bay
- Email and share images in real time with Fluke Connect®
- Easily pinpoint problems with a built-in laser pointer
- Easy-to-use user interface with one-touch image access
- Stores thousands of images 4 GB internal memory and 4 GB micro SD card
- Rugged and reliable

FLK-TiS45 9Hz

FLK-TiS40 9Hz

FLK-TiS20 9Hz

FLK-TiS10 9Hz

	TiS75	TiS75 TiS65/TiS60 TiS55/TiS50		TiS45/TiS40		TiS20	TiS10		
Key features									
IFOV (spatial resolution)	2.0 mRad	2.4 r	nRad	2.8 m	ıRad	3.9 mR	ad	5.2 mRad	7.8 mRad
Detector resolution	320 x 240	260	t 195	220 x	165	160 x12	20	120 x 90	80 x 60
Field of view	35.7 ° x 26.8			.7 ° x 26.8 °					
Distance-to-Spot	504:1	40	9:1	346	5:1	252:1		189:1	128:1
Wireless connectivity	Yes								
Fluke Connect® enabled		Yes							
IR-Fusion® technology					Yes				
AutoBlend™ mode			5 presets (0%	, 25%, 50%, 7	5%, 100%)			3 presets (0%, 50%, 100%)	_
Picture-In-Picture (PIP)			5 presets 10%	25% 50% 7!	5% 100%)			100 70	
Focus system	Manual focus, Minimum focus distance, 0.15 m			Manual focus, Minimum focus distance, 0.15 m	Fixed focus, Minimum focus distance 0.45 m	Manual focus, Minimum focus distance, 0.15 m	Fixe	d focus, Minimu distance 0.45	
Ruggedised display				3.5 inch (land	lscape) 320 x 2		!		
Rugged, ergonomic design for				0.0 11.011 (1411.0		10 202			
one-handed use					Yes				
Thermal sensitivity (NETD)		≤ 0.08 °C a	t 30 °C target	temp (80 mK)		≤ 0.09 °C a target te (90 mF	mp	≤ 0.10 °C at 30 °C target temp (100 mK)	≤ 0.15 °C at 30 °C target temp (150 mK)
Temperature measurement range (not calibrated below -10 °C)	-20	O °C to +550 °	,C	-20 °C to	+450 °C	-20	°C to +35	60 °C	-20 °C to +250 °C
Level and span				Smooth auto	and manual s	scaling			
Fast auto toggle between manual and automodes					Yes				
Fast auto-rescale in manual mode					Yes				
Minimum span (in manual mode)					2.5 °C				
Minimum span (in auto mode)					5 °C				
Built-in digital camera (visible light)					5MP				
Frame rate	9 Hz oı	30 Hz	9 Hz	9 Hz or 30 Hz	9 Hz	9 Hz or 30 Hz		9 Hz	
Laser pointer				Yes				_	
Data storage and image capture Extensive SD memory system		Internal 4GB memory Internal 4GB memory and 4GB micro SD card (optional 4GB micro SD card so							
Image capture, review, save				nded image cap		nd cave canabil		separately)	
mechanism Image file formats			Non-radi	ometric (.bmp) o	r (.jpeg) or full	y-radiometric (.i	is2);		
				oftware require					
Instant Upload		Upload	captured ima	ges to Fluke Cor		ith the use of a	Wifi conn	ection	
Memory review				Thur	nbnail review				
Software		Smart	View® softwa	re -full analysis	and reporting	software and F	luke Coni	nect®	
Export file formats with SmartView® software			ВМР,	DIB, GIF, JPE, JFI	F, JPEG, JPG, P	NG, TIF, and TIFE	?		
Voice annotation			Yes, Bluetoot	h Headset (sold	separately)			_	
IR-PhotoNotes™	7	es (3 images)		Yes (1 image)			_		
Standard video recording		Yes				_			
Radiometric video recording	Yes –								
Video file formats	Non-radiometric (MPEG - encoded .AVI) and fully radiometric (.IS3)								
Battery									
Batteries (field-replaceable, rechargeable)	Two lithium ion smart battery packs with five-segmentLED display to show charge level One lithium ion smart battery packs with five-segment LED display to show charge level								
Battery life	4+ hours					_			
Battery charge time	Maria 1-	ny hottowy al	rgor or	2.5 hou	ırs to full charç	је			
Battery charging system		ny battery cha imager chargi	ng			(optional extern			ly)
AC operation		AC	operation with	n included powe	r supply (100	v AC to 240 V AC	5, 50/60	HZ)	
Temperature measurement				00/1		,	,		
Accuracy			± 2 °C	or 2% (at 25 °C			r)		
On-screen emissivity correction				Yes (both	ı value and tal	ore)			
On-screen reflected background temperature compensation					Yes				
On-screen transmission correction	Ye		_	Yes	_	Yes			

Fluke Professional Series Infrared Cameras Ti450, Ti400 and Ti300





Fluke Ti300







This trio of Fluke Infrared Cameras are equipped with LaserSharp™ AutoFocus for in-focused images. Every. Single. Time. The new Fluke Ti450 with MultiSharp™ Focus delivers images focused throughout the camera's field of view & offers SuperResolution for 4x pixel enhancement.

Fluke Ti450 Infrared Camera

- Capture clear images focused throughout the field of view with MultiSharp™ Focus
- Get an instant in-focus image of your designated target with LaserSharp® Auto Focus.
 -20 °C to +1200 °C
- 320x240 detector resolution
- Get 4x the pixels with SuperResolution. View spectacular 640x480 IR images.
- Detect and communicate issues faster with patented Fluke IR-Fusion $^{\scriptscriptstyle{(\!R)}}$ with AutoBlend $^{\scriptscriptstyle{\mathsf{TM}}}$ mode
- Faster communication with wireless image transfer directly to your PC, Apple® iPhone® or iPad® With Fluke Connect® securely connect and
- collaborate with others, so they can see what you can see without leaving the field.

Fluke Ti400 Infrared Camera

- Optimised for electrical, industrial and building applications
- -20 °C to +1200 °C
- 320x240 detector resolution
- Detect and communicate issues faster with patented Fluke IR-Fusion® with AutoBlend™ mode
- Faster communication with wireless image transfer directly to your PC, Apple® iPhone® or iPad®
- With Fluke Connect® securely connect and collaborate with others, so they can see what you can see without leaving the field.
- One-handed, easy-to-use user interface
- Ruggedised capacitive high-resolution 640X480 touch screen for quick menu navigation

Fluke Ti300 Infrared Camera

- Optimised for electrical, industrial and building applications
- -20 °C to +650 °C
- 240x180 detector resolution
- Detect and communicate issues faster with patented Fluke IR-Fusion® with AutoBlend™ mode
- Faster communication with wireless image transfer directly to your PC, Apple® iPhone® or iPad®
- With Fluke Connect® securely connect and collaborate with others, so they can see what you can see without leaving the field.
- Video recording both standard and radiometric
- Rechargeable, field replaceable smart batteries with LED display to show charge levels for excellent field flexibility

Announcing the SmartView® Mobile App



Bring your office to your inspection site with the SmartView Mobile App. Create an inspection report on site and communicate directly to your client or manager via your Apple® iPhone® or

Optimise: Adjust the image to present problems in the most effective way.

Analyse: Use markers and other tools to quantify the severity of problems.

Communicate: Share inspection results by emailing images or reports to:

For more information, go to www.fluke.com/au/infrared cameras

- Plan next steps or gain approval for work done before you even leave the job site
- If needed, get assistance analysing the problem

Fluke SmartView Mobile will increase the return on your infrared camera investment.

Recommended Accessories





FLK-LENS/TELE2 FLK-LENS/WIDE2 lephoto infrared lens (2x magnification)





FLK-TI-VISOR3

TI-TRIPOD3 Tripod mounting base accessory



Fluke SmartView® IR Analysis Reporting Software & Mobile App

Included Accessories

AC Power Supply and Battery Pack Charger, Rugged Lithium-ion Smart Battery Packs x 2, USB Cable, HDMI Video Cable, Rugged, Hard Carrying Case, Soft Transport Bag, Adjustable Hand Strap, Warranty Registration, and SmartView® Software available via Free Download.

Ordering Information

FLK-Ti450 9Hz Infrared Camera

FLK-Ti450 60Hz Infrared Camera

FLK-Ti400 9Hz Infrared Camera

FLK-Ti400 60Hz Infrared Camera FLK-Ti300 9Hz Infrared Camera

FLK-Ti300 60Hz Infrared Camera

4XTELE2 Tele-photo Lens (4X magnification)

FLK-LENS/ Infrared TELE2 Tele-photo Lens

(2X magnification)

Infrared

FLK-LENS/ Infrared Wide WIDE2 **Angle Lens**

Contact your local distributor for price and availability. www.fluke.com/au/wtb

FLK-LENS/

Specifications

	Ti450	Ti400	Ti300					
Imaging Performance								
Detector resolution	320 x 240 (76,800 pixels)—or 640 x 480 with SuperResolution	320 x 240 (76,800 pixels)	240 x 180 (43,200 pixels)					
SuperResolution	On camera and in software. Captures and combines 4x the data to create a 640x480 image							
Infrared spectral band	<u> </u>	7.5 <m (long="" 14="" <m="" td="" to="" wave)<=""><td></td></m>						
Frame Rate	9 Hz refresh rate	e or 60 Hz refresh rate depending upor	n model variation					
Thermal sensitivity (NETD)		≤ 0.05 °C at 30 °C target temp (50 mK)						
IFOV with standard lens (spatial resolution)	1.31 mRad, D:S 753:1	1.31 mRad, D:S 753:1	1.75 mRad, D:S 573:1					
Minimum focus distance		15 cm						
IFOV with optional 2x telephoto smart lens	0.65 mRad, D:S 1529:1	0.65 mRad, D:S 1529:1	0.87 mRad, D:S 1147:1					
Minimum focus distance		45 cm						
IFOV with optional wide-angle smart lens	2.62 mRad, D:S 377:1	2.62 mRad, D:S 377:1	3.49 mRad, D:S 283:1					
Minimum focus distance		15 cm						
Focus Mechanism								
MultiSharp™ Focus System	Yes, focused near and far, throughout the field of view		_					
LaserSharp® Auto Focus System	Yes, for co	onsistently in-focus images. Every. Sin	gle. Time.					
Advanced manual focus		Yes						
Temperature								
Temperature measurement range (not calibrated below -10 °C)	-20 °C to +1200 °C	-20 °C to +1200 °C	-20 °C to +650 °C					
Temperature measurement accuracy	± 2 °C (or 2 % (at 25 °C nominal, whichever is	greater)					
On screen correction – emissivity, BG & transmission		Yes						
IR-Fusion® information								
Picture-in-picture (PIP)		Yes						
Full screen infrared	Yes							
AutoBlend™ mode	Min, Mid, Max IR plus full visible on camera; continously variable in software							
Colour alarms (temperature alarms)	High tempera	ture, low temperature, and isotherms (within range)					
Image presentation								
Standard Palettes		rast, Amber, Amber Inverted, Hot Metal	<u> </u>					
Ultra Contrast™ Palettes	Hot Meta	d Ultra, High Contrast Ultra, Amber Ultr l Ultra, Grayscale Ultra, Grayscale Inve	rted Ultra					
Level and span	Smooth au	uto-scaling and manual scaling of leve	l and span					
Fast auto toggle between manual and auto modes		Yes						
Fast auto-rescale in manual mode		Yes						
Minimum span (in manual mode)		2.0 °C						
Image capture and data storage								
Image capture, review, save mechanism		nded image capture, review, and save o						
Storage medium	· ·		ct download via USB-to-PC connection netric (MPEG - encoded .AVI) and fully-					
File formats		radiometric (.IS3)	, ,					
Memory review	Inum	nbnail view navigation and review sele	ection					
Built-in digital camera (visible light)	footuvos	5MP						
Other time-saving and productivity		th, Fluke Connect app, Fluke Connect t	cools connectivity*					
Wireless Connectivity LED light (torch)	ies. wiii, biuetoo	tn, Fluke Connect app, Fluke Connect t	oors connectivity.					
Digital zoom	2x and 4x	109						
Laser distance meter	ZA dilu TA	Yes						
Software	SmartView® software—fu	ıll analysis and reporting software and	Fluke Connect® system *					
Voice annotation		n recording time per image; reviewable	· · · · · · · · · · · · · · · · · · ·					
IR-PhotoNotes™	00 2000 Maximu	Yes (5 images)	- F - J					
Text annotation	Yes	Yes	Yes					
Video recording		Standard and radiometric						
Streaming video	Via US	BB to PC and HDMI to HDMI compatible	screen					
Remote control operation	Yes	Yes	No					
Auto capture (temperature and	Voc	Vac	Voc					
interval)	Yes	Yes	Yes					

^{*} Wireless connectivity and Fluke Connect $^{\scriptscriptstyle \oplus}$ are not available in all regions.

Fluke Expert Series Infrared Cameras TiX560, TiX520 and TiX500





Fluke TiX520



Fluke TiX500





Your view of infrared technology is about to change 180°

With a 180° articulating FlexCam® lens, the largest LCD touchscreen and leading spatial resolution for a 320x240 infrared camera in its class¹, the answer is right before your eyes, even when your target isn't.

- Easily navigate over, under and around objects with the 180° articulating lens and see the image before you capture it
- Resolution TiX560, TiX520 and TiX500 320 x 240 (76,800 pixels) and 640x480 (307,200 pixels) with SuperResolution Mode
- Temperature range TiX560 -20°C to +1200°C TiX520 -20°C to +850°C TiX500 -20°C to +650°C
- Premium in-field viewing experience with the only 5.7 inch responsive touchscreen LCD in its class¹—150% more viewing area³
- Get an in-focus image with the touch of a button. LaserSharp® Auto Focus, exclusive to Fluke, uses a built-in laser distance meter that calculates and displays the distance to your designated target with pinpoint accuracy²
- See the details you need with smart lenses—2x and 4x telephoto, wide angle, and 25 micron macro—no calibration required, interchangeable between compatible cameras
- See, save and share from the field and connect to the largest selection of wireless test and measurement tools with Fluke Connect®
 - ¹Compared to industrial handheld infrared cameras with 320x240 detector resolution as of September 1, 2015.
- ²Up to 30 metres.
- ³ Compared to a 3.5 inch screen.

LaserSharp® Auto Focus

Get an in-focus image like never before with just a touch of a button. LaserSharp® Auto Focus, exclusive to Fluke, uses its built-in laser distance meter to calculate the distance to your designated target with pinpoint accuracy. On target and in-focus. Every. Single. Time.

Brilliant Image Quality

Enhanced image quality and temperature measurement accuracy - turn your 320 x 240 images into 640 x 480 images. That's 4x the resolution and pixels with SuperResolution.

Fluke 4x Telephoto Infrared Smart Lens

A 4x telephoto lens can help identify a potential issue in your equipment, even when your target is as tiny and distant as a failed splice on a high electrical line or an overheated refractory on a tall flare stack.

- With smart lenses you can just attach the lens to any compatible camera and start taking images.
- This lens includes a patent-pending lens attachment system that holds the lens securely in place, reducing lens wobble.
- Made of 100 % diamond-turned germanium with an engineered coating, the most efficient available material to transmit energy to the detector.



25 Micron Macro Infrared Smart Lens

Get an incredibly detailed image of very small objects so you can gain insight into thermal buildup and dissipation on printed circuit boards, identify a faulty or undersized component, or potentially even pinpoint precise faulty locations on those components. See details as small as 25 microns, which is smaller than the average human hair.



Included Accessories

AC Power Supply and Battery Pack Charger, Rugged Lithium-ion Smart Battery Packs x 2; USB Cable; HDMI Video Cable; Rugged, Hard Carrying Case, Adjustable Neck and Hand Strap, Bluetooth Headset (where available), Warranty Registration Card and Calibration Certificate. Flash Drive includes Product Manuals and SmartView* Software.

Ordering Information

FLK-TiX560 9Hz Infrared Camera 320x240; 9 Hz

FLK-TiX560 60Hz Infrared Camera 320x240; 60 Hz

FLK-TiX520 9Hz Infrared Camera 320x240; 9 Hz

FLK-TiX520 60Hz Infrared Camera

320x240; 60 Hz

FLK-TiX500 9Hz Infrared Camera 320x240; 9 Hz

FLK-TiX500 60Hz Infrared Camera

320x240; 60 Hz

FLK-LENS/ 25 Micron Macro

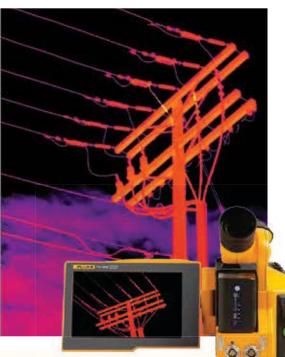
25MAC2 Infrared Lens
FLK-LENS/ Infrared

4XTELE2 Tele-photo Lens (4x magnification)

Specifications

	TiX560	TiX520	TiX500			
Key Features						
IFOV with standard lens (spatial resolution)	1.31 mRad, D:S 764:1					
Detector resolution	320 x 240 (76,800 pixels)					
Field of view		24 °H x 17 °V				
Minimum focus distance		15 cm				
IFOV with optional 2x telephoto smart lens		0.65 mRad, D:S 1528:1				
Field of view		12 °H x 9 °V				
Minimum focus distance		45 cm				
IFOV with optional 4x telephoto smart lens		0.33 mRad, D:S 3056:1				
Field of view		6.0 °H x 4.5 °V				
Minimum focus distance		1.5 m				
IFOV with optional wide-angle smart lens		2.62 mRad, D:S 399:1				
Field of view		46 °H x 34 °V				
Minimum focus distance		15 cm				
Minimum micron spot size with optional		15 cm				
macro smart lens		25 microns				
Field of view		36.1° X 27.1°				
Working distance		3 mm to \sim 14 mm with optimal at 10 r				
SuperResolution	On camera and in software	In sof	tware			
Image sharpening	Yes	-	-			
LaserSharp® Auto Focus	-	onsistently in-focus images. Every. Sir	<u> </u>			
Laser distance meter	Yes, calculates distance to the	target for precisely focused images a	nd displays distance on screen			
Advanced manual focus		Yes				
Streaming video (remote display)	Via HDMI or WiFi in remote control mode	Via HDMI or Wi	Fi to SmartView			
Touchscreen display (capacitive)	14.4 cm diagonal landscape color VGA (640 x 480) LCD with backlight					
Wireless connectivity	Yes					
Wireless compatibility	Yes, to PC, iPhone® and iPad® (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN					
Fluke Connect® app compatible		Yes	-			
Fluke Connect® tool compatible		virelessly to select Fluke Connect® en ve simultaneous connections support				
IR-Fusion® technology		Yes				
AutoBlend™ mode		Yes				
Picture-In-Picture (PIP)		Yes				
Ficture-in-Ficture (FiF)	Set AutoBlend™ level across	165				
Continuous AutoBlend™	continuum	-	_			
Rugged, ergonomic design		tatable (articulating lens) >180 degre	ees			
Thermal sensitivity (NETD)	≤ 0.045 °C at 30 °C target temp (45 mK)	≤ 0.05 °C at 30 °C	target temp (50 mK)			
Filter Mode (NETD improvement)	≤ 0.03 °C at 30 °C target temp (30 mK)	≤ 0.04 °C at 30 °C target temp (40 mK)	_			
Level and span		Smooth auto and manual scaling				
Touchscreen adjustable level/span	Yes. Span and level can be easily and quickly set by simply touching the screen					
Fast auto toggle between manual and auto modes	Yes					
Fast auto-rescale in manual mode	Yes					
Minimum span (in manual mode)		2.0 °C				
Minimum span (in auto mode)	3.0 °C					
Built-in digital camera (visible light)	5 megapixel industrial performance					
Frame rate		60 Hz or 9 Hz versions				
Laser pointer		Yes				
LED light (torch)		Yes				
	2v /v 0v	I	2x			
Digital Zoom	2x, 4x, 8x	2x, 4x				

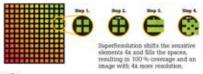
Fluke Expert Series Infrared Cameras TiX1000, TiX660 and TiX640



It's time to see what you're missing

Up to 3.1 million pixels with SuperResolution. Instantly capture highly detailed images and start analysing your images while still in the field. See incredible detail from a distance or extremely close up. On camera, you get up to 10x the pixels of a standard 320x240 camera (based on the TiX1000). SuperResolution mode, available when viewed in SmartView® software, lets you see HD resolution with up to 3.1 million pixels— 4x the on-camera standard resolution.

Your work as an expert thermographer is defined by the quality of the infrared images you take and your ability to analyse what's before you. The most pressing challenge lies not in analysing what you see, but the fear of missing something you can't.





Take the guesswork out of your inspection and analysis

• The first HD infrared camera with our Fluke Connect® technology-10 times the on-camera pixels than standard 320x240 cameras (1024x768 resolution, 786,432 pixels)

- Enhanced image quality and temperature measurement accuracy—get 4 times the resolution and pixels than standard mode with SuperResolution (up to 3,145,728 pixels)
- Work from greater distances. See a 5 mm target from 35 m away using the TiX1000 with the Super Telephoto lens
- Get a premium in-field viewing experience for quick issue identification with the large 5.6 inch high resolution LCD screen
- Save time focusing with the most advanced focus options available for consistently in focus image: LaserSharp® Auto Focus, auto focus, manual and EverSharp multifocal recording features—available on one camera.
- The Fluke Expert Series offers the best flexibility of the entire Fluke infrared camera portfolio to capture spectacular images close up or from a distance. The TiX1000, TiX660 and TiX640 are compatible with 8 lens options (2x and 4x telephoto lenses, 2 wide angle lenses, 3 macro lenses and 1 standard lens) so great images can be captured despite certain obstacles



PREMIUM IMAGE QUALITY

SPATIAL RESOLUTION TiX1000 0.6 mRad TiX660 and TiX640 0.8 mRad

RESOLUTION

TiX1000

1024 x 768 (786,432 pixels) **TiX660 and TiX640**

640 x 480 (307,200 pixels)

SUPER RESOLUTION MODE

TiX1000

2048 x 1536 (3,145,728 pixels) **Tix660**

1280 x 960 (1,228,800 pixels)

FIELD OF VIEW

TiX1000 32.4 ° x 24.7 ° (1.0/30 mm) TiX660 and TiX640

30.9 ° x 23.1 ° (1.0/30 mm)

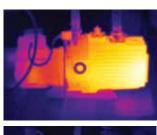
TEMPERATURE RANGE

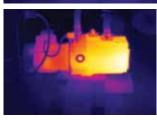
TiX1000 & TiX660 -40 to 2000 °C

TiX640 -40 to 1200 °C









Super Resolution: The most spectacular images ever from a Fluke Infrared Camera





Fluke CV Series ClirVu® Infrared Windows





Fluke CV200

Fluke CV300





Compliance without compromise. Safety without sacrifice.

Increase the safety and speed of electrical thermal imaging inspections with the Fluke ClirVu® IR Windows Reduce the risk of arc-flash and electrocution, increase the safety of your personnel and reduce the time and cost of preventive maintenance.

- Save time with a quick and easy 5 minutes or less installation
 - One technician
 - One hole with standard Greenlee® punch
 - Panel door does not need to be removed
 - Grounds instantly to metal enclosure with patentpending AutoGround™ process
 - Maintains panel arc test ratings up to 63kA when properly installed
- Torture Tested™ to the highest arc blast test ratings
 IEEE C37.20.7: 63 kA Arc tested at KEMA, UL50/50E/50V, UL1558, IEC60529-1: IP67, IEC 60068, NEMA 4/12, CSA C22.2 NO. 14-13:2012,
- Convenience of both guick turn (CV400, CV300, CV200) or security keyed access (C401, CV301, CV201)
- Fluke IR Windows offered in three sizes 50 mm, 75 mm and 95 mm
- Work permit requirements and NFPA 70E processes are significantly reduced
- Full PPE is often not required so inspections are done faster and more comfortable

Quick & Easy Installation in 5 minutes or less







Specifications

	CV400	CV401	CV300	CV301	CV200	CV201	
Size	95	75	5 mm 50 mm				
Voltage Range			Aı	ny			
NEMA Environment Type		7	ype 4/12 (in	.door/outdoo	r)		
AutoGround™			Ye	es			
ClirVu® Optic			Ye	es			
Operating temperature		-40 °C to	+ 232 °C an	d + 260°C Ir	ntermittent		
Body material	I	EZAC & ZA-2	7 High Stren	gth Zinc/ Al	uminum Alloy	7	
Ratings and testing							
Arc-Tested (IEEE C37.20.7)		63 kA	for 30 cycle	s @ 60Hz at	KEMA		
UL 50V component recognition			Ye	es			
UL 50/NEMA Environmental Rating			NEMA Ty	rpe 4/12			
UL 1558			Ye	es			
CSA C22.2 No.			Ye	es			
CSA Type Rating			Тур	e 4			
IP rating	IP67 at TUV						
Lloyds Register	Up to 1	1 kV marine	switchgear,	indoor or ou	tdoor (offsho	re only)	
Vibration rating			IEC60068-	2-6 at TUV			
Humidity rating	IEC60068-2-3 at TUV						
Install							
Actual mounting hole diameter required	115.42 mm		89.89 mm		61.37 mm		
Greenlee Punch Kit = Punch/Die	742BB = 2984AV/2983AV		739BB = 1431AV/1432AV		76BB = 441AV/442AV		
Door Latch	Hand Turn	Security Key	Hand Turn	Security Key	Hand Turn	Security Key	
Optics							
Optic insert diameter	95	mm	75	mm	50	50 mm	
Warranty	Lifetime replacement against manufacturing defects				turing defect	S	

Ordering Information

FLUKE-CV401 95 mm, Infrared Window, Security **Key Door Latch** 95 mm, Infrared FLUKE-CV400 Window, Hand Turn Door Latch

FLUKE-CV301 75 mm, Infrared Window, Security Key Door Latch

FLUKE-CV300 75 mm, Infrared Window, Hand Turn Door Latch

FLUKE-CV201 50 mm, Infrared Window, Security **Key Door Latch**

FLUKE-CV200 50 mm, Infrared

Window, Hand Turn Door Latch



INDOOR AIR QUALITY

Fluke 975 AirMeter™

Simple, one-touch air velocity



Fluke 975



The Fluke 975 AirMeter test tool raises indoor air monitoring to the next level by combining five powerful tools in one rugged and easy-to-use handheld device. The Fluke 975 offers an unparalleled feature-set for HVAC and facilities technicians, helping them work more quickly and accurately, with the ease of use and durability customers expect from a Fluke meter.

Use the AirMeter to respond to comfort-related calls from occupants, verify the operation of building HVAC control systems and determine whether adequate ventilation exists. Also be able to monitor air flow and velocity, test for dangerous carbon monoxide leaks, perform duct traversals and optimise HVAC systems to manage energy costs.

- Simultaneously measures, logs and displays temperature, humidity, CO₂ and CO on a bright, backlit LCD display
- % of outside air calculation
- One-touch air flow and velocity with available probe*
- Dew point and wet bulb temperature
- CO, and CO field calibration feature
- Min/Max/Avg on all measured and calculated readings
- Audible and visual threshold alarms
- Extensive discrete or continuous data logging capacity, downloadable to PC via USB interface
- Includes NIST-traceable certificate of calibration
- Automatically compensates for barometric pressure changes
- Two-year warranty

Specifications

Feature	Range	Display resolution	Accuracy
Measured specifications			
Temperature	-20 °C to 60 °C	0.1 °C	± 0.9 °C from 40 °C to 60 °C ± 0.5 °C from 5 °C to 40 °C ± 1.1 °C from -20 °C to 5 °C
Relative humidity	10 % to 90 % RH non-condensing	1 %	± 2 % RH (10 % RH to 90 % RH)
Air velocity	50 fpm to 3000 fpm 0.25 m/sec to 15 m/sec	1 fpm 0.005m/sec	4 % or 4 fpm 3 % or 0.015 m/sec whichever is greater Accuracy specification only valid for velocity readings above 50 fpm.
CO ₂	0 to 5000 ppm	1 ppm	Warm up time 1 min (5 minutes for full specification) 2.75 % + 75 ppm
СО	0 to 500 ppm	1 ppm	\pm 5 % or \pm 3 ppm, whichever is greater, @ 20 °C and 50 % RH
Calculated specifications			
Dew point temperature	-44 °C to 57 °C	0.1 °C	± 1 °C when temp: -20 °C to 60 °C RH: 40 % to 90 % ± 2 °C when temp: -20 °C to 60 °C RH: 20 % to 40 % ± 4 °C when RH: 10 % to 20 %
Wet bulb temperature	-16 °C to 57 °C	0.1 °C	± 1.2 °C when RH: 20 % to 90 % temp: -20 °C to 60 °C ± 2.1 °C when RH: 10 % to 20 %
Volume flow rate (in a duct)	0 to 3,965 M ³ /m 0 to 140,000 cfm)	0.001 M³/min (1 cfm)	N/A: The volume flow calculation will be a simple average of the data points times the duct area
% outside air (based on temperature)	0 to 100 %	0.1 %	N/A
% outside air (based on CO ₂)	0 to 100 %	0.1 %	N/A

Recommended Accessories



Fluke 975VP AirMeter Velocity Probe for use with Fluke 975 AirMeter.

Recommended Kits

Buy more, Save more



Fluke 975V AirMeter™ Calibration Kit with Velocity Probe

For more details see page 136

Fluke 975 Application



Included Accessories

3 AA Alkaline Batteries, User Manual, Calibration Cap, FlukeView® Forms Software, Power Adapter, International Power Plugs, Air Velocity Probe (Fluke 975V only)

Ordering Information

FLUKE-975 AirMeter™

FLUKE-975V AirMeter™ with

Velocity

FLUKE-975VP Air Velocity Probe

^{*}Included with Fluke 975V, optional with Fluke 975.

Fluke 922 Airflow Meter/Micromanometer



The Fluke 922 makes airflow measurements easy by combining three tools: differential pressure, airflow, and velocity into a single, rugged meter. The 922 was designed and built for how (and where) you do your job, with performance, ruggedness and ease of use, setting the Fluke 922 apart from the competition. The bright white display and ruggedised holster and wrist strap let you take the Fluke 922 into less than ideal environments. The colour-coded hoses help you keep track of where your readings are coming from. The simple, intuitive interface means you can measure pressure, velocity, or airflow at the push of a button.

The Fluke 922 helps you analyse airflow easily

- Powerful meter provides differential and static pressure, air velocity and flow readings
- Convenient coloured hoses help proper interpretation of pressure readings
- · Easy to use without sacrificing performance
- · Bright, backlit display for clear viewing
- User-defined duct shape and size for maximum airflow accuracy
- Resolution down to 0.001 in H20
- 99 point data storage capacity
- Min/Max/Average/Hold functions for easy data analysis
- Auto power off saves battery life



- Measure pressure drops across key HVAC equipment to drive peak performance and extend equipment life
- Match ventilation to occupant loads
- Monitor indoor vs. outdoor pressure relationships and manage the building envelope
- Promote indoor comfort and quality
- Perform duct traversals for accurate airflow readings

Specifications

Operating Temperature	0 °C to +50 °C		
Storage Temperature	-40 °C to +60 °C		
Operating Relative Humidity	Non condensing (<10 °C) 90% RH (10 °C to 30 °C) 75% RH (30 °C to 40 °C) 45% RH (40 °C to 50 °C) without Condensation		
IP Rating	IP40		
Operating Altitude	2000 m		
Storage Altitude	12000 m		
EMI, RFI, EMC	Meets requirements for EN61326-1		
Vibration	MIL-PREF-28800F, Class 3		
Max Pressure at Each Port	10 PSI		
Data storage	99 readings		
Warranty	Two-year		
Power	Four AA batteries		
Size (HxWxD)	175 mm x 77.5 mm x 41.9 mm		
Weight	0.64 kg		
Battery	Four AA batteries		
Battery Life	375 hours without backlight, 80 hours with backlight		
Warranty	Two Year		

	Range	Accuracy
Air pressure	± 4000 Pascals ± 16 in H20 ± 400 mm H20 ± 40 mbar ± 0.6 PSI	± 1 % + 1 Pascal ± 1 % + 0.01 in H20 ± 1 % + 0.1 mm H20 ± 1 % + 0.01 mbar ± 1 % + 0.0001 PSI
Air velocity	250 fpm to 16,000 fpm (1 to 80 m/s)	± 2.5 % of reading at 2000 fpm (10.00 m/s)
Air flow (volume)	0 to 99,999 cfm 0 to 99,999 m 3/hr 0 to 99,999 l/s	Accuracy is a function of velocity and duct size
Temperature	0 °C to 50 °C	0.1 °C

Recommended Accessories



Recommended Kits

Buv more. Save more



Fluke 922 Airflow Meter/ Micromanometer Kit

For more details see page 136

Included Accessories

Fluke 922: Two Rubber Hoses, Wrist Strap, 4 AA Batteries 1.5V Alkaline, User Manual and Soft Carrying Case

Fluke 922 Kit: Fluke 922 Airflow Meter, 30.48 cm Pitot tube, ToolPak, Two Rubber Hoses, Wrist Strap, 4 AA Batteries 1.5V Alkaline, User Manual and Hard Carrying Case.

Ordering Information

FLUKE-922 Airflow Meter

FLUKE-922/KIT Airflow Meter Kit

Fluke 971 Temperature Humidity Meter



Temperature and humidity are two important factors in maintaining optimal comfort levels and good indoor air quality. Quickly and conveniently take accurate humidity and temperature readings with the Fluke 971. It is invaluable for facility maintenance and utility technicians, HVAC-service contractors, and specialists who assess indoor air quality (IAQ). Lightweight and easy to hold, it's the perfect tool for monitoring problem areas. With a rugged holster and protected sensor, the Fluke 971 is built to perform and made to last.

- New and improved digital sensor for faster response times
- Backlit dual display of humidity and temperature
- Measures dew point and wet bulb temperatures
- 99 record storage capacity
- Ergonomic design with belt clip and protective holster
- Compact and lightweight at 188 g
- Temperature range from -20 °C to 60 °C Relative humidity from 5 % to 95 % Min/Max/Avg/Hold functions

- Low battery indicator
- One-year warranty



Fluke 971

Specifications

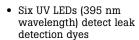
Temperature range	-20 °C to 60 °C
Temperature accuracy 0 °C to 45 °C -20 °C to 0 °C and 45 °C to 60 °C	± 0.5 0C ± 1.0 °C
Resolution	0.1 °C
Response time (temperature)	500 ms
Temperature sensor type	NTC
Relative humidity range	5% to 95% R.H.
Relative humidity accuracy 10% to 90% R.H. @ 23 °C <10%, >90% R.H. @ 23 °C	± 2.5 % R.H. ± 5.0 % R.H.
Humidity sensor	Electronic capacitance polymer film sensor
Data storage	99 points
Response time (humidity)	For 90% of total range - 60 sec with 1 m/s air movement

General	
Operating temperature	Temperature: -20 °C to 60 °C Humidity: 0 °C to 60 °C
Storage temperature	-20 °C to 55 °C
Battery life	4 AAA alkaline, 200 hours
Safety	Complies with EN61326-1
Size (HxWxD)	194 mm x 60 mm x 34 mm
Weight	0.188 kg
Warranty	One Year

Specialty Model

Fluke RLD2 UV Refrigerant **Leak Detector** Flashlight

Leak detection made easy. The compact, easy-to-use, RLD2 UV flashlight uncovers refrigerant leaks instantly. Use the UV light to find the leakage area, then, use the laser pointer to pinpoint the exact leak location. With 100,000 hours of life, and four operating modes, this versatile leak detector is a must have for HVAC technicians.



- Laser pointer clearly locates centre of the UV field for accuracy
- Three LED flashlight with 100.000 hour LED life
- Operating temperature 0 °C to 50 °C
- Four operating modes: flashlight, UV light, laser light, UV/laser light combination
- Convenient detachable key chain carabiner and AAA battery included

Recommended Accessories





See page 144





Gear Tool Box See page 145

Included Accessories

Fluke 971: 4 AAA Alkaline Batteries, Operation Manual

Fluke RLD2: Chain Carabiner and **Batteries**

Ordering Information

FLUKE-971

Temperature **Humidity Meter**

FLUKE-RLD2

Leak Detector Flashlight

Fluke 985 Airborne Particle Counter



Fluke 985



The Fluke 985 Particle Counter is ideal for troubleshooting and monitoring indoor air quality issues and verifying HVAC filter performance in critical locations. With its easy to read and fully configurable channel display, lightweight yet rugged form and highly accurate measurements, the Fluke 985 is the perfect tool for the maintenance, HVAC, and IAQ professional.

- Six channels and particle size range of 0.3 µm to 10.0 µm: Assures accurate measurements even for critical locations requiring ISO Class 5 9 certification.
- Ultra-lightweight and ergonomic design: Promises easy single-hand operation in tight or awkward spaces with less operator fatigue
- Long battery life: Ten hours of standard-use battery life to last a full work day
- Large 3.5 inch QVGC colour display: Easy navigation and viewing with the intuitive icons and large font options
- 10,000 record storage: Quick access to historical data
- On-screen data presentation: Data can be viewed in a traditional tabular or trend graph view at the user's preference
- Personalised setting and configurations: Customisable settings for the display, sample methods, and alarm settings for sample count
- Data export options: Download data to a PC using a USB memory stick, USB cable or Ethernet connection. No special software is required to download or view data
- Option password control: Confirms security when required
- USB/Ethernet charge cradle: Assures device is always ready to go when needed

Specifications

Channels	0.3 µm, 0.5 µm, 1.0 µm, 2.0 µm, 5.0 µm, 10.0 µm		
Flow rate	0.1 cfm (2.83 L/min)		
Light source	775 nm to 795 nm, 90mW class 3B laser		
Count modes	Raw counts, #/m3, #/ft3, #/liter in Cumulative or Differential mode		
Counting efficiency	$50~\%~@~0.3~\mu m;~100~\%$ for particles > 0.45 μm (per ISO 21501)		
Zero count	1 count/5 minute (JIS B9921)		
Concentration limits	10 % at 4,000,000 particles per ft3 (per ISO 21501)		
Data storage	10,000 records (rotating buffer)		
Alarms	Counts, low battery, sensor fail		
Delay time	0 to 24 hours		
Sample inlet	Isokinetic probe		
Security	Administrator password control (optional)		
Communication mode	USB or Etheret		
Calibration	PSL particles in air (NIST traceable)		
Size (HxWxD)	272 x 99 x 53 mm		
Weight	0.68 kg		
Power adapter	100 V AC to 240 V AC, 12 V DC, 2.5 A		
Rechargeable battery	Li-ion 7.4 V 2600 mAh; 10 hours typical use (5 hours continuous sampling) / 3.5 hours)		
Operating environment	10 °C to 40 °C / < 95 % non-condensing relative humidity		
Storage environment	-10 °C to 50 °C /Up to 98 % non-condensing relative humidity		
Warranty	One Year		

Specialty Model

CO-220 Carbon Monoxide Meter

- Stand-alone CO meter that does not require a digital multimeter
- Large backlit LCD displays CO levels from 0 ppm to 999 ppm
- Beeper triggers with increasing frequency as CO levels rise
- MAX hold function stores and displays the maximum CO level
- Automatic sensor zeroing and self-test upon startup

For more information, goto www.fluke.com/au/co-220

CO-205 Aspirator Kit

The CO-205 flue gas sampling accessory kit includes:

- Stainless steel sampling tube
- Aspirator to draw flue sample
- Replaceable particulate filter
- Nose cap for connection to the Fluke CO-220



Included Accessories

Fluke 985: Cradle for charging and convenient USB and Ethernet Communications, ENET CATSE 7-foot Cable, USA-A to Mini-B 6-foot Cable, 12V DC Power Supply, Zero Count Inlet-Filter, Filter Adapter, Sample Inlet Protective Cap, Hard Case, Getting Started Manual and User Manual CD

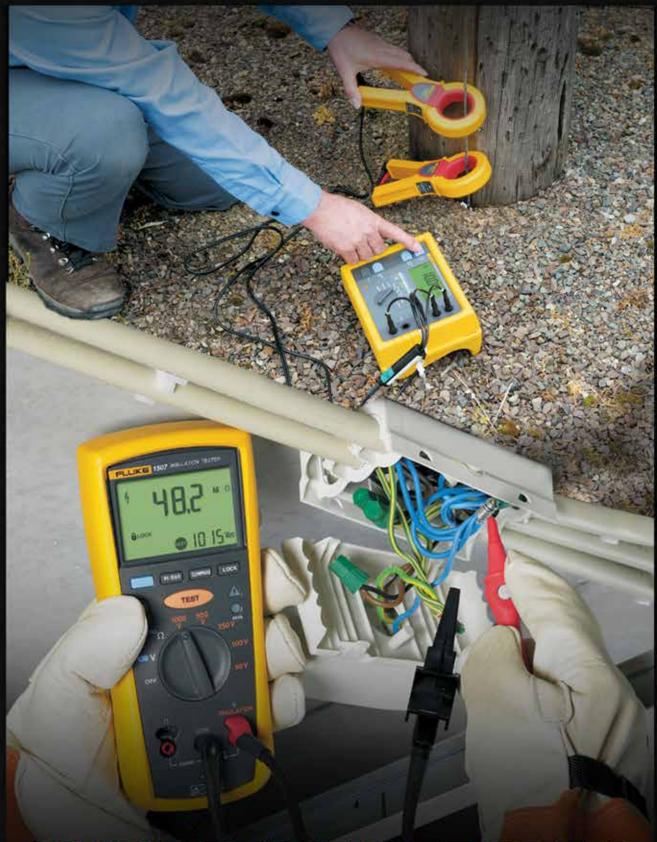
Fluke CO-220: C50 Soft Carrying Case and Battery.

Ordering Information

FLUKE-985 Particle Counter

FLUKE-CO-220 Carbon Monoxide Meter

FLUKE-CO-205 Aspirator Kit



INSULATION & EARTH GROUND TESTERS

Insulation Tester Selection Guide















Installation Test Functionality	1503	1507	1577	1587 FC	1587 T	1550C	1555
Test voltages	500V, 1000V	50V, 100V, 250V, 500V, 1000V	500V, 1000V	50V, 100V, 250V, 500V, 1000V	50V, 100V	250V, 500V, 1000V, 2500V, 5000V	250V, 500V, 1000V, 2500V, 5000V, 10000V
Insulation Resistance Test Range	0.1ΜΩ - 2GΩ	0.01ΜΩ - 10GΩ	0.1ΜΩ - 600ΜΩ	0.01 ΜΩ - 2GΩ	0.01ΜΩ - 100ΜΩ	200ΚΩ - 1ΤΩ	200ΚΩ - 2ΤΩ
Polarisation Index/Dielectric Absorption Ratio		•		•		•	•
Auto Discharge	•	•	•	•	•	•	•
Time Ramp test (Breakdown)						•	•
Pass/Fail Comparison		•					
Estimated Number of Insulation resistance Tests	1000	1000	1000	1000	1000	1000 @ 5000 V	1000 @ 10000 V
Voltage > 30V Warning	•	•	•	•	•	•	•
Memory				•		(99 locations)	(99 locations)
Remote Test Probe	•	•	•	•	•		
Lo Ohms	•	•					
Display	Digital LCD	Digital LCD	Digital LCD	Digital LCD	Digital LCD	Digital LCD / Analogue Bar Graph	Digital LCD / Analogue Bar Graph
Continuity	(200mA)	(200mA)	•	•	•		
Multimeter Functionality							
AC/DC Volts	•	•	•	•	•		
Current			•	•	•		
Resistance	•	•	•	•	•		
Temperature (contact)				•	•		
Temperature Compensation				•			
Lo-Pass Filter				•	•		
Capacitance				•	•	•	•
Diode Test				•	•		
Frequency				•	•		
MIN/MAX				•	•		
Fluke Connect® enabled				•			
Other							
Hold/Lock	•	•	•	•	•	•	•
Backlight	•	•	•	•	•		
Software						(Fluke View® Forms Basic)	(Fluke View® Forms Basic)
Warranty (in years)	1	1	3	3	3	3	3
Battery	4 AA (NEDA 15A or IEC LR6)	4 AA (NEDA 15A or IEC LR6)	4 AA (NEDA 15A or IEC LR6)	4 AA (NEDA 15A or IEC LR6)	4 AA (NEDA 15A or IEC LR6)	Rechargeable	Rechargeable

Fluke 1587 FC and 1577 Insulation Multimeters

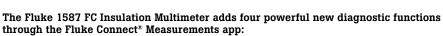




Two powerful tools in one

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital 1 kV insulation tester with a full-featured, True-RMS digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance

- Insulation test (1587 FC: 0.01 M Ω to 2 G Ω) (1577: 0.1 M Ω to 600 M Ω)
- Insulation test voltages (1587 FC: 50 V, 100 V, 250 V, 500 V, 1000 V), (1577: 500 V, 1000 V) for many applications
- Live circuit detection prevents insulation test if voltage
 > 30 V is detected for added user protection
- Auto-discharge of capacitive voltage for added user protection
- Filter for motor drive measurements (1587 FC only)
- AC/DC voltage, DC millivolts, AC/DC milliamps, resistance (Ω), and continuity
- Capacitance, diode test, temperature, Min/Max, and frequency (Hz) (1587 FC only)
- · Auto power off to save battery power
- Large display with backlight and large digits
- Included accessories: Remote probe, test leads and probes, alligator clips, (Type K thermocouple, 1587 FC only)
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Rugged, utility hard case allows you to bring everything you need for the job



- PI/DAR timed ratio tests with TrendIt[™] graphs identifies moisture and contaminated insulation problems faster
- Memory storage through Fluke Connect eliminates writing down results, reduces errors and saves data for historical tracking over time
- Temperature Compensation through app for establishing accurate baselines and relevant historical comparisons
- Historical tracking and trending of assets identifies degradation over time, allows real-time
 decisions to be made in the field with Fluke Connect® Assets (sold separately)

Specifications

	1587 FC	1577
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	•	_
Insulation test voltages 500 V, 1000 V	_	•
Insulation resistance	0.01 MΩ to 2.0 GΩ	0.1 MΩ to 600 MΩ
Auto-discharge of capacitive voltage	•	•
Insulation test smoothing reading	•	_
Frequency	•	_
Capacitance	•	_
Diode test	•	_
Temperature	•	-
Min/Max	•	-
Low-pass filter (for work on VSDs)	•	-
AC/DC voltage	•	•
DC millivolts	•	•
AC/DC milliamps	•	•
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity	•	•
Warranty	Three-year	Three-year
Remote probe, test leads, alligator clips	•	•
Type K thermocouple	•	_
Rugged, utility hard case	•	•
Auto power off	•	•









Fluke 1587 FC Advanced Electrical Troubleshooting Kit



Fluke 1587 FC/MDT Advanced Motor and Drive Troubleshooting Kit

For more details see page 135

Included Accessories

Fluke 1577/1587 FC: Remote Probe, Test Leads, Alligator Clips, K-type Thermocouple (1587 FC only), Hard Case, User Documentation.

Ordering Information

FLUKE-1577 **Insulation Multimeter** FLUKE-1587T Insulation Multimeter for Telecommunications FLUKE-1587FC Insulation Multimeter with Fluke Connect FLUKE-1587/ FC 2-in-1 ADV Motor & Drive Kit w/9040, i400 MDT FC FLUKE-1587/ FC 2-in-1 Insulation Multimeter with i400 1400 FC 1587KIT/ FC 2-in-1 ADV Elec Kit 62MAX FC w/62MAX+ i400

Contact your local distributor for price and availability.

www.fluke.com/au/wtb

Fluke 1507 and 1503 Insulation **Resistance Testers**



These lightweight, affordable insulation testers are perfect for troubleshooting, commissioning and preventive maintenance applications.

- · Automatic calculation of polarisation index and
- dialectric absorption ratio (1507 only) Multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V (1507 only)
- Remote test probe for rapid testing
- Insulation test range 0.01 M Ω to 10 G Ω (1507), 0.1 M Ω to 2000 MΩ (1503)
- Compare (Pass/Fail) function for repetitive tests (1507 only)
- Live circuit detection prevents insulation test if voltage > 30 V is detected
- Auto-discharge of capacitive voltage
- AC/DC voltage: 0.1 V to 600 V
- Lo ohms/Earth-bond continuity (200 mA) for checking connections and motor windings
- Resistance: 0.01 Ω to 20.00 Ω
- One-year warranty









Features

	1503	1507
User selectable test voltages for many applications	•	•
Additional test voltages 50V, 100V, 250V		•
Special remote control probe for easy and safe measurements	•	•
Auto-discharge of capacitive voltage for added user protection	•	•
Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection	•	•
Save both time and money with Automatic calculation of Polarisation Index and Dielectric Absorption Ratio		•
Auto Power off to save batteries	•	•
Large display with backlight	•	•
Continuity function (200 mA)	•	•
Compare function (pass/fail) for fast repetitive tests		•

Specifications

Insulation	1503	1507
Insulation test range	0.1 MΩ to 2000 MΩ	0.01 MΩ to 10 GΩ
Test voltages	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V
Test voltage accuracy	+ 20 %, - 0 %	+ 20 %, - 0 %
Insulation test current	1 mA nominal	1 mA nominal
AC/DC Voltage measurement	600 V (0.1 V resolution)	600 V (0.1 V resolution)
Resistance measurement range	0.01 Ω to 20 kΩ	0.01 Ω to 20 kΩ
Auto discharge	Discharge time < 0.5 second for $C = 1 \mu F$ or less	Discharge time < 0.5 second for $C = 1 \mu F$ or less
Maximum capacitive load	Up to 1 μF	Up to 1 μF
Open circuit test voltage	> 4 V , < 8 V	> 4 V , < 8 V
Short circuit current	> 200 mA	> 200 mA

General Battery life Meter: 1000 hours Insulation Test: >1000 tests Size (HxWxD) 203 mm x 100 mm x 50 mm Weight 0.55 kg

Recommended Accessories





Magnetic Meter Hanger See page 147

TL27 Heavy Duty Test Lead Set See page 139





Soft Carrying Case See page 144

C101 See page 145

Fluke 1507/1503 **Applications**



Insulation test at a distribution panel



Wiring test in a small distribution box - all in one spot

Included Accessories

TL224 Test Leads, TP74 Test Probes, Clips PN 1958654 (red) and PN 1958646 (black), Holster, Remote Probe and User Manual.

Ordering Information

FLUKE-1507 **Insulation Tester** FLUKE-1503 **Insulation Tester**

Fluke 1555 and 1550C Insulation **Resistance Testers**



Fluke 1550C











Powerful troubleshooting and predictive maintenance tools

The Fluke 1555 and redesigned Fluke 1550C Insulation Resistance Testers offer digital insulation testing up to 10 kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables.

- Large digital/analogue LCD for easy viewing
- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- Three-year warranty
- Test voltages up to 5 kV (1550C) and 10 kV (1555) provide solutions for all applications
- Warning function alerts the user that line voltage is present and gives a voltage reading up to 600 V AC or DC for increased user safety
- Measurements can be stored in up to 99 memory locations, and each location is assigned a unique, user-defined label for easy recall
- Long battery life gives the user over 750 tests between changes
- Automatic calculation of Dielectric Absorption (DAR) and Polarisation Index (PI) with no additional setup
- Guard system eliminates the effect of surface leakage current on high-resistance measurements

Specifications

The tester's accuracy is specified for one year after calibration at operating temperatures of 0 °C to 35 °C. For operating temperatures outside the range (-20 °C to $\hat{0}$ °C and 35 °C to 50 °C), add \pm .25 % per °C, except on the 20 % bands add \pm 1 % per °C.

Insulation resistance measurement			
Test voltage (DC)	est voltage (DC) Range Accuracy (± reading)		
250 V	< 250 k Ω 250 k Ω to 5 G Ω 5 G Ω to 50 G Ω > 50 G Ω	unspecified 5 % 20 % unspecified	
500 V	< 500 kΩ 500 kΩ to 10 GΩ 10 GΩ to 100 GΩ > 100 GΩ	unspecified 5 % 20 % unspecified	
1000 V	< 1 MΩ 1 MΩ to 20 GΩ 20 GΩ to 200 GΩ > 200 GΩ	unspecified 5 % 20 % unspecified	
2500 V	< 2.5 M Ω 2.5 M Ω to 50 G Ω 50 G Ω to 500 G Ω > 500 G Ω	unspecified 5 % 20 % unspecified	
5000 V	< 5 MΩ 5 MΩ to 100 GΩ 100 GΩ to 1 TΩ > 1 TΩ	unspecified 5 % 20 % unspecified	
10000 V (1555 only)	< 10 M Ω 10 M Ω to 200 G Ω 200 G Ω to 2 T Ω > 2 T Ω	unspecified 5 % 20 % unspecified	

Functions	Range	Accuracy (± reading)
Leakage current	1 nA to 2 mA	± (5 % + 2 nA)
Capacitance measurement	0.01 uF to 15.00 μF	± (15 % rdg + 0.03 μF)
Live circuit warning	30 V to 600 V AC/DC, 50/60 Hz	± (15 % + 2 V)



Recommended Kits

Buy more. Save more



Fluke 1550C 5 kV Insulation **Tester Kit**



Fluke 1555 10 kV Insulation **Tester Kit**

For more details see page 135

Included Accessories

Test Cables with Alligator Clips (red, black, green), Infrared Adapter with Interface Cable, FlukeView® Forms Basic CD, AC Power Cord, Soft Carrying Case, User Manual, Quick Reference Card, Software License Agreement, Registration Card, FlukeView Forms Installation Guide, USB-IR Cable Installation Guide, IP67 Hard Case (Kit only), Certificate of Calibration (Kit only), Ruggedised Alligator Clips (Kit and 1555 only).

Ordering Information FLUKE-1550C 5 kV Insulation Tester	
FLUKE-1550C	5 kV Insulation Tester
FLUKE-1555	10 kV Insulation Tester
FLUKE-1550C/KIT	5 kV Insulation Tester Kit
FLUKE-1555/KIT	10 kV Insulation Tester Kit

Fluke 1620-2 Series Geo Earth **Ground Testers**



Fluke 1625-2



Fluke 1623-2

simplify and speed up testing time. These unique earth ground testers that can perform all four types of earth ground

The Fluke 1620-2 series offer data storage and

download capabilities via USB port, have a large display and world class accessories that will

- measurement: 3- and 4-Pole Fall-of-Potential (using stakes)
- 4-Pole Soil Resistivity testing (using stakes)
- Selective testing (using 1 clamp and stakes)
- Stakeless testing (using 2 clamps only)
- IP56 rated for outdoor use
- Professional carrying case
- USB data storage and transfer

In addition, the Fluke 1625-2 offers these advanced features:

- Automatic Frequency Control (AFC) identifies existing interference and chooses a measurement frequency to minimse its effect, providing more accurate earth ground value
- R* measurement calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault-to-earth ground would see
- · Adjustable limits for quicker testing

Earth ground resistance and soil resistivity should be measured when:

- Designing earth ground systems
- Installing new ground system and electrical equipment
- · Periodically testing ground and lightning protection systems
- Installing large electrical equipment such as transformers, switchgears, machines, etc.

Features

	1623-2	1625-2
One-button measurement concept	•	
3- and 4-pole Fall of Potential, earth resistance loop testing	•	•
4-Pole soil resistivity testing	•	•
2-Pole resistance measurement AC		•
2-and 4-pole resistance measurement DC		•
Selective testing, no disconnection of ground conductor (1 clamp)	•	•
Stakeless testing, quick ground loop testing (2 clamps)	•	•
Measuring frequency 128 Hz	•	
Earth impedance measurement at 55 Hz		•
Automatic frequency control (AFC) (94 – 128 Hz)		•
Measuring voltage switchable 20/48V		•
Programmable limits, settings		•
Continuity with buzzer		•
Dust/water resistance	IP56	IP56
Safety rating	CAT II 300 V	CAT II 300 V

Specifications

	1623-2	1625-2	
Resistance ranges	O to 20 kΩ	0 to 300 kΩ	
Operating error	± 10%	± 5%	
Test voltage	48 V	20 / 48 V	
Short circuit current	> 50mA	250 mA	
Weight	1.1 kg (including batteries)	1.1 kg (including batteries)	
Size (WxHxD)	250 x 133 x 187 mm		
Battery type	6 x AA alkaline cells		
Warranty	Two year		

These products are for unpowered installations measuring grounding connections.

Recommended Accessories



EI-1623 Selective/stakeless



Selective/stakeless clamp set for 1625



ES-162P3 Stake/reel set for 3-pole measurements





EI-162BN 320MM Split Core Transformer for use with Fluke 1625



CABLE REEL Ground/Earth Cable Reel

Recommended Kits

Buy more, Save more



Fluke 1623-2 GEO Earth **Ground Tester Kit**



Fluke 1625-2 GEO Earth **Ground Tester Kit**

For more details see page 135

Included Accessories

Fluke 1623-2: Protective Holster, 2 Test Leads, 2 Alligator Clips, User Manual.

Fluke 1623-2 Kit: Same as above plus Stake/Reel, Set 4 Pole and Selective/ Stakeless Clamp Set.

Fluke 1625-2: Protective Holster, 2 Test Leads, 2 Alligator Clips, User Manual.

Fluke 1625-2 Kit: Same as above plus Stake/Reel, Set 4 Pole and Selective/ Stakeless Clamp Set.

Ordering Information

FLUKE-1623-2 Basic GEO Earth **Ground Tester** FLUKE-1623-2 KIT Basic GEO Earth **Ground Tester Kit** FLUKE-1625-2 Advanced GEO Earth Ground Tester

FLUKE-1625-2 KIT Advanced GEO Earth Ground Tester Kit

Fluke 1621 Basic Earth Ground Tester

Earth ground tester for resistance measurement



Fluke 162[.]



Hand-held Earth Ground Tester for resistance measurement

The Fluke 1621 is an easy-to-use earth ground tester. For ground resistance testing, the 1621 is the first line of defence in detecting reliable ground connections. The unit features basic ground testing methods including 3-pole Fall-of-Potential as well as 2-pole ground resistance tests. Its convenient size, rugged holster, and large, clear LCD display make it an ideal field earth ground tester, for most electrical grounding work environments. With a simple user interface and intuitive functionality, the Fluke 1621 is a handy grounding tool for electrical contractors, utility test engineers, and earth ground specialists.

- 3-pole Fall-of-Potential earth testing for basic measurements
- 2-pole resistance measurements for added versatility
- Easily capture values with single-button operation
- Ensure accurate measurements with automatic 'noise' voltage detection
- · Hazardous voltage warning offers increased user protection
- · Clearly read and record data with a large, backlit display
- Instantly be alerted to measurements outside of your set limit, when you use the adjustable limit setting
- Safety rating CAT II 600 V

Specifications

Measuring functions	3-pole earth ground resistance, 2-pole AC resistance of a conductor, Interference voltage
Intrinsic error	Refers to the reference temperature range and is guaranteed for one year
Measuring rate	2 measurements/second
Battery	One 9 volt alkaline (LR61)
Battery condition	LO-BAT is displayed if voltage drops below 6.5 V
Voltages	Between jacks H/C2 and E/C1: 250 Veff maximum (effective voltage) Between jacks S/P2 and E/C1: 250 Veff maximum
Climatic class	VDE/VDI 3540 RZ (conforming to KWG as per DIN 40040, 4/87)
Temperature performance	Working: -10 °C to +50 °C Operating: 0 °C to +35 °C Storage: -20 °C to +60 °C
Temperature coefficient	± 0.1 % of range per degree Kelvin
Size	113 mm x 54 mm x 216 mm including holster
Weight	850 g including standard accessories, volume approximately 600 cm ³

Note: If the tester is not going to be used, or is being stored for a long period, remove the battery and store separately from the tester to avoid damage from battery leakage.

The four temperature ranges for the tester exists to satisfy European Standards requirements; the instrument can be

The four temperature ranges for the tester exists to satisfy European Standards requirements; the instrument can be used over the full working temperature range by using the temperature coefficient to calculate accuracy at the ambient temperature of use. These products are for unpowered installations measuring grounding connections.

Maximum deviations				
Parameter	Influence Factor		Deviation Influence	
E ₁	Position		0 %	
E ₂	Supply Voltage		0 %	
E ₃	Temperature E ₃		2.3 %	
E ₄	Serial interference voltage (20 V)		0.6 %	
E _s	Probe and auxiliary probe resistance		10 %	
Test Voltage		3.7 kV		
Protection Type		IP 40; IEC/EN 60529		
Electromagnetic Compatibility		Emission: IEC/EN 61326 Class B Immunity: IEC/EN 61326 Annex C		

R ₂ Resistance Measurement	
Measuring method	Current-voltage measurement with improved cross-talk attenuation, no compensation of measuring lead resistance, with probe (3-pole) or without probe (2-pole), as per IEC/EN 61557-5
Open circuit voltage	23 to 24 V AC
Short circuit current	> 50 mA AC
Measuring frequency	128 Hz
Maximum permissible overload	250 Veff



Recommended Kits

Buy more, Save more



Fluke 1621 Basic Earth Ground Tester Kit

For more details see page 135

Included Accessories

Fluke-1621: Two Measuring Leads with Alligator Clips - 2 m, Protective Holster, User Manual and CD.

Fluke-1621 Kit: 2 Cable Reels with Wire (1-50 m, 1-25 m), 3 Earth Ground Stakes, 1 Test Lead (red and black 2 m), 2 Alligator Clips, Batteries, User Manual, Hard Carrying Case.

Ordering Information

FLUKE-1621

Basic GEO Earth Ground Tester

Ground Tes

FLUKE-1621 KIT

Basic GEO Earth Ground Tester Kit

Fluke 1630 Earth Ground Clamp Meter



Fluke 1630



Earth Ground loop resistance measurements for commercial, industrial, and utility applications

The clamp-on ground testing technique used by the Fluke 1630 simplifies ground loop testing and enables non-intrusive leakage current measurement. The compact and rugged design makes the Fluke 1630 easy to use in small places and harsh environments, while the 'display hold' and the continuity testing with an audible alarm function ensures convenience in use. The novel technique means that earth ground loop testing and continuity testing can be completed without breaking the circuit.

The Fluke 1630 is ideally suited for the following applications:

- Ground loop checks on any earthing system
- Continuity tests on earth bonding circuits and connections
- Inspection of lightning protection systems
- Leakage current measurement for troubleshooting on earth ground systems

Stakeless testing system

The Fluke 1630 uses the Stakeless testing method, which eliminates the need to disconnect parallel ground rods and find suitable locations for placing auxiliary ground stakes. This saves time and enables users such as industrial and utility electricians, and field service electricians and contractors, to perform earth ground loop tests in locations where it is not possible to use other techniques, including inside buildings or on power pylons. With the Stakeless testing method, earth ground stakes are no longer necessary.

The Fluke 1630 Earth Ground Clamp is placed around the earth ground rod or the connecting cable. A known voltage is induced by one half of the clamp and the current is measured by the other half. The tester automatically determines the ground loop resistance at this grounding connection.

- A wide ground loop resistance range, from 0.025 Ω to1500 $\Omega,$ to satisfy all requirements
- Large jaw opening of 35 mm for tests on ground conductors and/or equipotential bus bars
- Measurement of ground leakage current, from 0.2 mA to 1000 mA, without needing to disconnect - ideal for system troubleshooting
- Wide AC current measurement range from 0.2 Å to 30 Å allows one instrument for multiple applications
- User-defined HI / LO Alarm limits, for rapid measurement evaluation
- Handy 'display hold' button for capturing readings in hard-to-reach places
- Time saving memory function automatically records and stores measured values
- Automatic self calibration ensures correct measurement every time
- Overload protection: 200 A
- ≥ 8 hours battery life (continuous operation)

Specifications

Operating error	Refers to the operating temperature range and is guaranteed for 2 years
Storage temp. range	-20 °C to 60 °C
Reference temp. range	23 °C ± 5 °C
Storage humidity	< 75 % R _H
Operating humidity	< 85 % R _H
Display	9999 digit LC-display with special symbols
Protection	IP20 according to IEC 529/EN 60529
Safety	300 V, CAT III / pollution degree 2 IEC 61010-1
Weight	640 g
Conductor size	35 mm approximately
Size (LxWxD)	257 mm x 100 mm x 47 mm
Emission	IEC 1000 4-2, IEC 61326-1 class B
Immunity	IEC 61000-4-2, 8 kV (air) criteria A IEC 61000-4-3, 3 V/m performance criteria A
Range selection	Auto
Overload indicator	"OL" on display
Measuring time	0.4 sec
Measuring frequency	3.333 kHz

Equivalent Circuit Diagram

Included Accessories

Rugged Carrying Case with Shoulder Strap, Resistance Test Loop, 9V Battery, Operating Instructions and User Manual.

Ordering Information

FLUKE-1630

Earth Ground Clamp Meter



MULTIFUNCTION & PORTABLE APPLIANCE TESTERS

Fluke 1650 Series Multifunction Installation Testers



Fluke 1654B



Fluke 1653B



Fluke 1652C









Extra functionality, faster testing, and as rugged as ever

The Fluke 1650 Series builds on the rugged reputation of the earlier 1650 Series, only it's re-designed to meet your need for more productive test tools. With features like the fast, high current loop test (including a non-trip test) and a variable RCD trip current setting, accuracy is even better and the test cycle even faster. With the addition of a unique Zero Adapter accessory for accurate mains test lead compensation, the 1650 Series continues to set the standard in installation testers.

These testers verify the safety of electrical installations in domestic, commercial and industrial applications. They can ensure that fixed wiring is safe and correctly installed to meet the requirements of IEC 60364, HD 384 and BS 7671 17th Edition wiring regulations.

1654B - The complete tester for advanced users

From all the test functions you need to in-built memory for documenting results. This makes it the complete solution for professionals, especially contractors, everyone who would want to have the best tool available and always understands (or know) how to use.

1653B - The ideal tester for professional trouble-shooters

This is the instrument that is indeed ideal for professional users due to its additional functionality. It is also ideal since even though it has high-end features, it is still easy to use – even after longer periods of non-use; because operating it is intuitive and not forgotten easily.

1652C - The everyday tester, for every electrical installer

This is the instrument that can be used every single day (day in, day out), and covers all the basic needs. It is the preferred tester for every front-line electrician/installer.

Comparison Chart

Measurement Function	1652C	1653B	1654B
Voltage & Frequency	•	•	•
Insulation Resistance	•	•	•
Continuity & Resistance	•	•	•
Loop & Line Resistance	•	•	•
Loop & Line Resistance - mΩ resolution			•
Prospective Earth Fault Current (PEFC/IK) Prospective Short-Circuit current (PSC/IK)	•	•	•
RCD switching time	•	•	•
RCD tripping level	Ramp test	Ramp test	Ramp test
RCD variable current	•	•	•
Automatic RCD test sequence	•	•	•
Test pulse current sensitive RCDs (Type A)	•	•	•
Test smooth DC sensitive RCDs (Type B)			•
Earth Resistance		•	•
Phase Sequence Indicator	•	•	•
Other Features			
Self-test	•	•	•
Illuminated Display	•	•	•
Memory, Interface			
Memory		•	•
Extended Memory			•
Computer Interface		•	•
Time and date (when used with FlukeView® software)		•	•
Software (optional)		•	•

TLK 290 Test Probe Kit See page 139 TP165X Remote Control Probe Recommended Accessories MAINS TEST CORD for Fluke 1650B ES165X Earth Spike Test Kit [Fluke 1653B] and 1654B only]

Included Accessories

6 AA Cell Batteries, C1600 Hard Carrying Case, Zero Adapter, Mains Test Cord, TL165X STD Standard Test Lead Set, TP165X Remote Control Probe and Lead, Padded Carrying Strap, Quick Reference Guide, User Manual on CD

Ordering Information

FLUKE-1652C Multifunction Installation Tester

FLUKE-1653B Multifunction Installation Tester

FLUKE-1654B Multifunction Installation Tester

Specifications

AC Voltage N	AC Voltage Measurement				
Range	Resolution	Accuracy (50 Hz - 60 Hz)	Input Impedance	Overload Protection	
500 V	0.1 V	± (0.8% + 3 digits)	3.3 ΜΩ	660 Vrms	

Continuity Testing				
Range (autoranging)	Resolution	Test Current	Open Circuit Voltage	Accuracy
20 Ω	00.1 Ω			
200 Ω	0.1 Ω	> 200 mA	> 4 V	± (1.5%+3 digits)
2000 Ω	1 Ω			

Insulation Resistance Measurement					
Model	Test Voltage	Insulation Resistance Range	Resolution	Test Current	Accuracy
1653B / 1654B	50 V	10 kΩ to 50 MΩ	0.01 ΜΩ	1 mA @ 50 kΩ	± (3% + 3 digits)
1000D / 100AD	100 V	100 kΩ to 20 MΩ	0.01 ΜΩ	1 # @ 100 1-0	± (3% + 3 digits)
1653B / 1654B		20 MΩ to 100 MΩ	0.1 ΜΩ	1 mA @ 100 kΩ	
1653B / 1654B / 1652C	250 V	10 kΩ to 20 MΩ	0.01 ΜΩ	1 mA @ 250 kΩ	± /1 F0/ + 2 dimital
		20 MΩ to 200 MΩ	0.1 ΜΩ		± (1.5% + 3 digits)
	1654B / 500 V	10 kΩ to 20 MΩ	0.01 ΜΩ		± (1.5% + 3 digits)
1653B / 1654B / 1652C		20 MΩ to 200 MΩ	0.1 ΜΩ	1 mA @ 500 kΩ	± (1.5% + 3 digits)
		200 MΩ to 500 MΩ	1 MΩ		± 10%
1653B / 1654B	1654B 1000 V	100 kΩ to 200 MΩ	0.1 ΜΩ	1 7 @ 1 1/0	± (1.5% + 3 digits)
1652C		200 MΩ to 1000 MΩ	1 MΩ	1 mA @ 1 MΩ	± 10%

Loop Imp	Loop Impedance Measurement			
Range	Resolution	Accuracy ¹		
10 Ω	0.001 Ω (1654Β)	Hi Current m Ω mode: \pm (2 % + 15 digits)		
20.0	20.0	No Trip mode: ± (3 % + 6 digits)		
20 Ω 0.01 Ω	Hi Current mode: ± (2 % + 4 digits)			
200.0	0.1 0	No Trip mode: ± (3 %)		
200 12		Hi Current mode: ± (2 %)		
2000 Ω	1 Ω	±6 %²		

Notes "Valid for resistance of neutral circuit <20 Ω and up to a system phase angle of 30°. Test leads must be zeroed before testing. 2 Valid for mains voltage >200 V.

PFC. PSC Test	
Range	O to 10 kA or to 50kA
Resolution and Units	Resolution: $I_{\rm k}$ < 1000 Å, Units: 1 Å Resolution: $I_{\rm k}$ > 1000 Å, Units: 0.1kÅ
Accuracy	Determined by accuracy of loop resistance and mains voltage measurements

RCD Te	RCD Testing			
	RCD Type ⁶	Model 1652C	Model 1653B	Model 1654B
AC1	G ²	•	•	•
AC	S ³	•	•	•
A^4	G	•	•	•
A	S	•	•	•
B ⁵	G			•
В	S			•

Notes

1 AC - Responds to AC
2 C - General, no delay
3 S - Time delay
4 A - Responds to pulsed signal

B - Responds to smooth DC
 RCD test inhibited for V > 265 AC
 RCD tests permitted only if the selected current, multiplied by earthing resistance, is <50 V.

Earth Resistance Test (RE) – Fluke 1654B and 1653B only			
Range	Resolution	Accuracy	
200 Ω	0.1 Ω	± (2% + 5 digits)	
2000 Ω	1 Ω	± (3.5% + 10 digits)	

General Specifications	
Battery type	Alkaline supplied. usable with 1.2 V NiCD or NiMH rechargeable batteries
Size (HxWxD)	100 mm x 250 mm x 125 mm
Weight	1.3 kg
Warranty	Three Year

Slim Probe Design



Thanks to its slim probe with integral test button, you can safely make one-handed measurements on hard to reach points, while keeping your eyes on the panel. This remote probe is powered by the tester so always operable (does not require additional batteries).

Zero Adapter



For easy, always reliable and accurate compensation for test leads and mains cords. This adapter can be used for all different kind of mains plugs as well as test accessories like probes, alligator clips etc.

Complete Kit



All 1650 models are equipped with detachable leads that can be replaced in case of damage or loss. A durable hard case will protect your instrument in tough field conditions.

Fluke 6200-2 and 6500-2 Portable Appliance Testers



Fluke 6200-2



Fluke 6500-2







Perform more tests each day

The Fluke 6200-2 and 6500-2 Portable Appliance Testers (PAT) have redesigned auto-test capabilities to help you increase the number of portable appliance tests completed each day. It is designed to enable you to work faster without compromising safety – yours or your customer's.

The Fluke 6200-2 Portable Appliance Tester offers:

- Dedicated key for each test for 'one- touch' testing
- Pre-set pass/fail levels to save time
- Large display for easy reading
- Single mains socket for appliance connection
- Separate IEC socket for easy mains/extension lead testing
- · Detachable test leads for quick field replacement
- Integral carrying handle

The Fluke 6500-2 Portable Appliance Tester delivers all of this capability, plus:

- · Integral QWERTY keyboard for rapid data entry
- Additional Compact Flash memory card capability for back-up data storage and USB port for transfer to PC
- Large backlit graphics display
- Pre-set, auto-test sequences for user convenience
- Integral site, location and description codes for faster data processing
- Memory review facility for more on-site control

Recommended Accessories





SP-SCAN-6000 Barcode Scanner (6500-2 only)

DMS COMPL
Data Management
Software



C1600 Rugged, molded plastic case See page 145

Fluke 6500-2 Application



Features

Measurement functions	6200-2	6500-2
LN Mains Volts	•	•
Outside Limits Indicators	•	•
Null out facility for earth bond lead	•	•
Protective Earth Resistance PE (200mA)	•	•
Protective Earth Resistance PE (25 A)	•	•
Insulation 500V DC	•	•
Insulation 250V DC		•
Protective Earth Conductor Current	•	•
Touch Current	•	•
RCD Test		•
Substitute leakage current	•	•
Appliance Power kVA	•	•
Appliance Load Current	•	•
Seven Segment Custom LCD	•	
Colour dot matrix display		•
Back Light	•	•
USB Flash drive port	•	•
USB Port-Printing/downloading		•

External printer output	•	•
Front Panel QWERTY Key pad		•
IEC Lead Test	•	•
Auto-testing		•
Pass / Fail Level Programmable Indicators		•
Data Storage		•
Limited Data Storage		•
Polarity Checks	•	•
Graphical Help Menu Online		•
Programme Mode		•
Real time clock		•

Included Accessories

Test Lead, Test Probe, Crocodile Clip, Mains Cord, USB Stick, USB Cable, Hard Carrying Case, Quick Reference Guide and User Manual on CD.

Ordering Information

FLUKE-6200-2 AU Portable

Portable
Appliance Tester

FLUKE-6500-2 AU Portable

Appliance Tester

Specifications

The accuracy specification for the display range is defined as \pm (%reading + digit counts) at 23 °C \pm 5 °C, \leq 75 % RH. Between 0 °C and 18 °C and between 28 °C and 40 °C, accuracy specifications may degrade by 0.1 x (accuracy specification) per °C. The measurement range meets the service operating errors specified in EN61557-1: 1997, EN61557-2: 1997 , EN61557-4: 1997, EN61557-6: 1997, DIN VDE404-2.

Power-on Test		
The test indicates reversed L-N, missing PE, and measures the mains voltage and frequency.		
Display Range	90 V to 264 V	
Accuracy at 50 Hz	± (2% + 3 counts)	
Resolution	0.1V (1V - model 6200)	
Input Impedance	> 1 MΩ // 2.2 μF	
Maximum Input Mains Voltage	264 V	

Earth Bond Test	
Display Range	0 to 19.99 Ω
Accuracy (After Bond Test Zeroing)	6200-2: ± (2.5% +4 counts) 6500-2: ± (5% +4 counts)
Resolution	0.01Ω
Test Current	200 mA AC – 0% + 40% into 1.990 25 A AC ± 20% into 25 m0 at 230 V
Open Circuit Voltage	> 4 V AC, < 24 Vac
Bond Test zeroing	can subtract up to 1.99Ω

Insulation Test (Riso)	
Display Range	0 to 299 MΩ
Accuracy	\pm (5% + 2 counts) from 0.1 to 300 M Ω
Resolution	0.01 MΩ (0 to 19.99 MΩ) 0.1 MΩ (20 to 199,9 MΩ) 1 MΩ (200 to 299 MΩ)
Test Voltage	$500 \ V \ DC - 0\% + 25\% \ at$ $500 \ k\Omega \ load$ $250 \ V \ DC - 0\% + 25\% \ at$ $250 \ k\Omega \ load \ (6500-2)$
Test Current	$>$ 1 mA at 500 k Ω load, $<$ 15 mA at 0 Ω
Auto discharge time	< 0.5 s for 1 μF
Max. Capacitive Load	Operational up to 1 μF

RCD Test: Trip Current (6500-2 only)			
Operational Error	± 10%		
Nominal	30 mA		
Accuracy	± 5%		

RCD Test: Trip Time (6500-2 only)					
Standard Requirement	61557 Part 6: Tolerance of rated test current 0% to +10%				
Operational Error	± 10%				
RCD Type	AC General-Purpose 30 mA				
Display range	310 ms				
Resolution	0.1 ms				
Accuracy	3 ms				
Trip time limit at 100% (30 mA)	300 ms				
Trip time limit at 500% (150 mA)	40 ms				

Touch Current Test			
Display Range	0 to 1.99 mA AC		
Accuracy	± (4% + 2 counts)		
Resolution	0.01 mA		
Internal Resistance (via probe)	2 kΩ		
Measuring method	Probe		
The appliance under test is energised at mains potential.			

Substitute Leakage Current Test				
Display Range	0 to 19.99 mA AC			
Accuracy	± (2.5% + 3 counts)			
Resolution	0.01 mA			
Test Voltage	100V AC ± 20%			
Operational Error	10%			

Load/Leakage Test: Load Current				
Display Range	0 to 10 A			
Accuracy	± (4% + 2 counts)			
Resolution 0.1 A				
The appliance under test is energised at mains potential				

Load/Leakage Test: Load Power				
Accuracy	± (5% + 3 counts)			
Resolution	1 VA (0 to 999 VA), 0.1 kVA (>1.0 kVA)			
The appliance under test is energised at mains potential				

Load/Leakage Test: Leakage Current				
Display Range 0.25 to 19.99 mA				
Accuracy	± (4% + 4 counts)			
Resolution 0.01 mA				
The appliance under test is energised at mains potential				

PELV Test	
Accuracy at 50 Hz	± (2% + 3 counts)
Overload protection	300 V RMS
Warning threshold	25 V RMS

Features



Fast professional testing modeThe professional testing mode
enables you to conduct more tests
faster and more efficiently than
ever before.



Rapid data entry (6500-2)

With a full QWERTY keyboard, alphanumeric data entry is faster, easier and more convenient. The integral site, location and description codes further speed up data entry on site, and contribute to more efficient testing and results management.



One-touch testing

Tests are selected on the 6200-2 and 6500-2 with just one button. This greatly simplifies testing.



Built-in handle and separate hard case

The strong, lightweight enclosure features an integral carrying handle and fits neatly into the separate hard case (supplied as standard). Unlike typical portable appliance testers with large cumbersome integral cases, the Fluke 6200-2 and 6500-2 are easier to carry around in the field.



POWER
QUALITY ANALYSERS

Power Quality Tools

For industrial and Commercial Applications



Basic measurements	Application use		Single phase					Three phase			
RMS Voltage	Detailed RMS trending	VR1710	345 •	43B	430 II	1730	1736 •	1738	1740	1750 •	1760 •
	shows how connected										
RMS Current	loads behave.		•	•	•	•	•	•	•	•	•
Energy studies	Cot detailed										
Measure V, I, kW, Cos/DPF, kWhr	Get detailed power and energy		•	•	•	•	•	•	•	•	•
Measure MIN/MAX and AVG	consumption profiles		•	•	•	•	•	•	•	•	•
values	during energy audits and pinpoint savings		•	•	•	•	•	•	•	•	•
10 day logging Energy aggregation	opportunities.		•				•		•		•
Utility meter pulse input	1				•		•	•			
Energy Loss (Eff. kW,					Ť						
Reactive kVAR, Unbalance kVAR, Distortion kVAR,			•	•	•		•	•	•	•	•
Neutral kVAR)											
Energy loss calculator					•		•	•			
Basic harmonics study											
THD measurement (V & I)	Discover the source of distortion in your	•	•	•	•	•	•	•	•	•	•
Harmonics 1 to 25 for V & I	installation, so that	•	•	•	•		•	•	(not 1743)	•	•
Tabular values	you can filter those loads or move them to				•		•	•	(HOU 1743)	•	•
Neutral current	separate circuits.										
measurement	- I				•		•	•	•	•	•
Crest factor			•	•	•				•	•	•
Advanced harmonics stud											
Full harmonic spectrum	If distorting loads are causing problems in		•	•	•		•	•	•	•	•
Power harmonics	your installation, you		•	•	•				•	•	•
Harmonics 1 to 50 and DC	need comprehensive data to intentify the		•	•	•				(no DC)	•	•
1.6.	source and create a								(not 1743)		
k-factor %Fundamental and %RMS	solution.		•	•	•				•	•	•
Basic Industrial PQ Troubl	eshooting										
Oscilloscope function	When troubleshooting		•	•	•		•	•		•	•
Voltage dips and swells	in the field, graphical	•		•	•		•	•	•	•	•
Phasor diagram	data enables you to trace the source of the				•					•	•
Trend recording	problem at hand.	•	•	•		•	(FC)	(EC)		•	•
Inrush current	-		•	•	•		(FC)	(FC)		•	•
Fluke Connect® enabled					_		•				
Advanced industrial PQ tr	oubleshooting										
Comprehensive logging	Complex installations		•	•	•	•	•	•	•	•	•
Capability Transient capture	often require a deeper dive into measurement	•	_	•	•					•	•
Flicker	data. Multiple loads								•		•
EN50160 analysis	may be interacting randomly to cause a				•			•	•	•	•
Complex System interaction	single problem.										
event capture (manual threshold setting)											•
Random/variable system	-										
event capture (Adaptive										•	
threshold setting)					•						
400 Hz					(only 437-II)						
Utility PQ benchmarking											
Phase sequence	Before you install				•					•	•
Interharmonics	sensitive loads, make sure you understand				•				•	•	•
Mains signaling	the existing quality of								•		
	power delivered by your utility. Comparing				_						
	benchmarks over time										
IEC61000-4-30 Class A	can help pinpoint potential areas of				•						•
	concern.										
Software											
PowerLog	To make use of the power data you	•	•		•		•	•			
PQ Log	collect, you need								•		
Power Analyse	software that can help analyse your									•	
PQ Analyse	findings and share										•
FlukeView Forms	them with equipment providers and plant				•						
	management.										
FSD card (max 32 GB)					8 GB					8 GB	
Fluke Energy Analysis						•					

Fluke 345 Power Quality Clamp Meter

The ideal meter to troubleshoot modern electrical loads



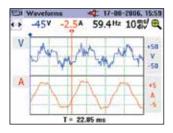
Fluke 345



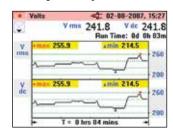
The Fluke 345 is more than just a power meter; it combines the functions of a clamp meter, oscilloscope, data logger and digital power meter into one handy device. The Fluke 345 is ideal for working with variable frequency motor drives, high efficiency lighting and other loads using switching electronics.

- AC/DC current: Clamp-on measurement of AC current up to 1400 A RMS and DC current up to 2000 A without breaking the circuit
- Highest safety rating: CAT IV 600 V power analyser is rated for use at the service entrance
- Accurate in noisy environments: Clamp meter performs even with distorted waveforms present on electronic loads with low-pass filter
- Data logging: Identify intermittent faults by logging any power quality parameter for minutes, or over a month, including harmonics
- Troubleshoot harmonics: Analyse and log harmonics digitally or graphically
- Inrush current: Capture and analyse nuisance tripping from 3 seconds to 300 seconds
- View graphs and generate reports: Use power analyser with included Power Log software
- Three phase power: Built-in capability for balanced loads
- Verify batteries: Direct measurement of DC ripple (%) for battery and DC systems

TP220 Industrial Test Probes See page 139 TLK291 Fused Test Probe Set See page 140 C550 Tool Bag See page 145



View waveforms for equipment checking and setup



Log parameters over time to track down intermittent faults

Specifications

DC, DC RMS, AC RMS	All measurements DC and 15 Hz to 1 kHz. Maximum overload 10,000 A or RMS x frequency < 400,000. Amps RMS			
	is a true RMS measurement (AC + DC)			
Measuring range	0 – 2000 A DC or 1400 AC RMS			
Harmonics	All measurements up to 30th harmonic (40th harmonic for 15 Hz to 22 Hz); Frequency range F0 : 15 Hz to 22 Hz and 45 Hz to 65 Hz; Iacrms > 10 F			
Voltage measurement				
DC, DC RMS, AC RMS	All measurements DC and 15 Hz to 1 kHz. Maximum overload 1,000 V RMS. Volts RMS is a true-RMS measurement (AC + DC)			
Measuring range	0 – 825 V DC or AC RMS			
Harmonics	All measurements up to 30th harmonic; Frequency range F0 : 15 Hz to 22 Hz and 45 Hz to 65 Hz; Vacrms > 1V			
Watts measurement (si	ngle-and three-phase) DC, DC RMS, AC RMS			
Measuring range	0 – 1650 kW DC or 1200 kW AC			
VA measurement (singl	e-and three-phase) DC, DC RMS, AC RMS			
Measuring range	0 -1650 kVA DC or 1200 kVA AC			
VAR measurement (sing	ple-and three-phase)			
Measuring range	0 – 1250 kVAR			
Power factor (single-an	d three-phase)			
Measuring range	0.3 cap1.0 0.3 ind (72.5° cap0° 72.5° ind)			
Displacement power fa	ctor			
Measuring range	0.3 cap 1.0 0.3 ind (72.5° cap 0° 72.5° ind)			
Kilowatt hour (kWHr)				
Measuring range	40,000 kWHr			
Scope function				
Time base	2.5 ms, 5 ms, 10 ms, 25 ms, 50 ms/div			
Inrush current function	All measurements DC and 15 Hz to 1 kHz			
Ranges	40, 400 and 2000 A			
Memory				
Up to 50 screen shots an	d over 150,000 individual measurement values			

Included Accessories

Soft Carrying Case, Power Log Software, Test Probes, Test leads, Alligator Clips, International AC Adapter/Battery Eliminator, User Manual.

Ordering Information

FLUKE-345

Power Quality Clamp Meter

Fluke 43B Power Quality Analyser



The Fluke 43B Power Quality Analyser performs the measurements you need to maintain power systems, troubleshoot power problems, and diagnose equipment failures. The 43B has 20 storage locations and can store data as well as

- Basic measurements: Voltage, current and power harmonics up to 51st, THD
- Oscillioscope function: View voltage and current waveforms
- Transients: Capture up to 40 voltage transients and waveform events
- · Detailed event capture: Cursors give time and date of sags and swells
- FlukeView® software: Analysis and reporting, supplied with USB connection lead
- Warranty: Three-years for analyser, one-year for accessories









Fluke 43B

Harmonics



- Voltage, current and power harmonics
- Up to 51st harmonic
- Total harmonic distortion (THD)
- Phase angle of individual harmonics

Power



- Watts, power factor, COS φ, VA and VAR
- Voltage and current waveforms

Sags and Swells



- Continuously measure volts and amps on a cycle-by-cycle basis for up to 16 days
- Use cursors to read time and date of sags and swells

Volts/Amps/Hertz



- Connect-and-View™ scope for quick waveform display
- View voltage and current channels simultaneously

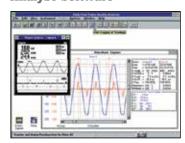
Specifications

Menu items	Measurements	Ranges	Accuracy	
Volts/Amps/Hz	Volts - True RMS (AC+DC) Amps - True RMS (AC+DC) Mains frequency CF Crest Factor	5.000 V - 1250 V 50.00A - 1250 kA 10 - 15.0 kHz 1.0 - 10.0	±(1%+10) ±(1%+10) ±(0.5%+2) ±(5%+1)	
Power	Watts, VAR, VA PF, DPF, COS φ	250 W - 1.56 GW 0.25 - 0.9 0.90 - 1.00	±(4%+4) ±0.04 ±0.03	
Harmonics	Volts Amps Watts K-factor	1 st to 51 st harmonic 1 st to 51 st 1 st to 51 st 1.0 to 30.0	±(3%+2) to ±(15%+5) ±(3%+2) to ±(15%+5) ±(5%+2) to ±(30%+5) ±10%	
Sags & Swells	Voltage and Current	4 min-16 days selectable	±(2%+10)	
Transient Capture	40 ns pulse width Up to 40 transients	Select 20/50/100/200% above or below line voltage	± 5% of full scale	
Inrush Current	1 sec. to 5 min selectable	1 A to 1000 A	± 5% of full scale	
Ohms/Continuity/ Capacitance/ Range	Ohms Capacitance	500.0 Ω to 30.00 MΩ 50.00 nF to 500.0 μF	± (0.6%+5) ± (2%+10)	
Temperature (with accessory)	°C	-100.0°C to 400.0°C	± (0.5%+5)	
Scope	DC, AC, AC+DC, peak, peak-peak, Hz, duty cycle, phase, pulse width, crest factor	Sampling rate: Bandwidth: Voltage BW (Channel 1) Current BW (Channel 2)	25 MS/sec 20 MHz 15 kHz	
Screen saves	All functions	20 screens		
Recording	V/A/Hz, Power, Harmonics, Ω/Cap, Temperature, Scope	4 min - 16 days selectable	Select any two parameters display mode in each	

Recommended Accessories I2000FLEX I1000S AC Current Clamp See page 141 See page 141 80T-150UA 80TK Thermocouple Module Universal See page 143 Temperature Probe TL220 AC220 Alligator Clips See page 140 SureGrip™ Industrial Test Lead Set

FlukeView® Power Quality **Analyse Software**

See page 139



Capture measurement screens for professional-looking reports with FlukeView® Power Quality Analyser software (included)

Included Accessories

TL224 Test Lead Set, AC220 Alligator Clip Set, TP4 Test Probe Set, BP120MH Rechargeable Battery Pack, BB120 Shielded BNC Adapter, PM8907 Line Adapter/ Charger, i400s AC Current Clamp, TP1-1 Test Probe Set, C120 Hand Carrying Case, OC4USB Interface Cable, SW43W FlukeView Software, VPS-40 Voltage Probe, User and Application

Ordering Information

FLUKE-43B

Power Quality Analyser (Single-phase)

Fluke VR1710 Power Quality Recorder



Fluke VR1710



Easy-to-use solution for detecting and recording voltage quality problems

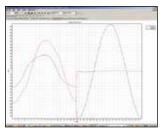
The Fluke VR1710 is a single-phase, plug-in voltage quality recorder that provides fast and easy recording of voltage trends, dropouts, harmonics and general power quality including dips and surges to help maintenance and facilities management personnel easily pinpoint the root cause of voltage problems. Voltage quality parameters including RMS average, transients, flicker, and harmonics up to the 32nd are recorded using a user-selected average period from 1 second to 20 minutes.

- Fast and easy recording of voltage trends, dropouts and power quality: Easily pinpoint the root cause of single phase voltage problems
- Extremely easy to use: Plugs directly into the mains power socket and capture data
- Quickly see what happened and when: Min, Max, and Average RMS values (1/4 cycle) with time stamp, transient display (>100 µs) with time stamp
- Easily identify problems: Power quality or equipment related Flicker recording to EN 61000-4-15, individual harmonic and THD values with trends
- Includes PowerLog software: For quick download, analysis and automatic reporting
- Save time: Generate power quality reports automatically with pre-set templates

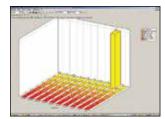
PowerLog Setup - Simple set up of

PowerLog Setup – Simple set up of internal clock, logging periods, and intervals with default values for quick results.

PowerLog View – Data presentation showing RMS voltage and harmonic trends, actual transients, summary information and statistics in accordance with ENS0160.



Actual transient display (> 100 µs) with time stamp—Quickly identify issues with included graphical software.



Statistical analysis of voltage event – reduces analysis time by tracking event quantities and magnitudes.



Includes PowerLog software

Applications

Voltage recording	Monitors and records supply voltage; measures RMS average, minimum and maximum values, and checks whether the socket outlet is providing voltage within tolerance.
Distortion measurement	Measure frequency and harmonics; check whether the distorting loads (UPS systems, drives, etc.) are affecting your other equipment.
Flicker measurement	Quantify the affects of switching loads on lighting systems.
Voltage transients	Capture those intermittent, momentary events that may be affecting your equipment; the full waveform is captured with date, timestamp, and duration.

Specifications

Operating voltage	70 V to 300 V
Min/Max/Avg RMS value	Resolution 0.125 V
Number of events	175,000
Dips/Interruptions	Yes
Time resolution	5 ms
Voltage resolution)	0.125 V
Over-voltages	Yes
Frequency	Yes
Harmonics measurement	EN 61000-4-7 (up to 32nd)
Flicker measurement	EN 61000-4-15
Number of recording channels	1 Phase to Neutral, 2 Phase/Neutral to Ground
Recording time	1 day to 339 days depending on average time from 1 second to 20 minutes
Transients	Yes
Frequency range	50 Hz ± 1 Hz and 60 Hz ± 1 Hz
Safety category rating	CAT II 300 V

Included Accessories

USB Cable, PowerLog Software CD, Universal Power Cord Adapters

Ordering Information

FLK-VR1710 Voltage Quality Recorder

Fluke 430-II Series Three-Phase **Power Quality Analysers**



Fluke 437-II



Fluke 434-II

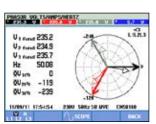




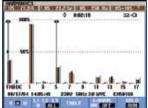
On all inputs

The Fluke 434-II, 435-II and 437-II Power Quality Analysers help locate, predict, prevent and troubleshoot power quality problems in three and single-phase power distribution systems. Additionally, the Fluke-patented energy loss algorithm, Unified Power Measurement, measures, quantifies and monitises energy losses due to harmonics and unbalance issues, allowing the user to pinpoint the origin of energy waste within a system.

- Patented energy loss management: Classic active and reactive power measurements unbalance and harmonic power and energy are quantified to pinpoint true system energy losses
- Realtime PowerWave data capture: Capture fast RMS data, show single cycle RMS value to characterise electrical system dynamics (generator start-ups, UPS switching etc.)
- Highest safety rating in the industry: CAT IV 600 V/ CAT III 1000 V rated for use at the service entrance
- Automatic transient mode: Capture 200 kHz waveform data on all phases simultaneously up to 6 kV
- Fully Class-A compliant: Conduct tests according to the stringent international IEC 61000-4-30 Class-A standard intervals for 435-II and 437-II
- Troubleshoot real-time: Analyse the trends using the cursors and zoom tools-even while background recording continues
- Measure all three phases and neutral: With included four iFlex flexible current probes
- Monitise energy loss caused by power quality issues



Phasor diagram.



Track harmonics up to the 50th, and measure and record THD.

Selection Table

	434-II	435-II	437-II
Standard compliance	IEC 61000-4-30 Class S	IEC 61000-4-30 Class A	IEC 61000-4-30 Class A
Volt Amp Hz	•	•	•
Dips and swells	•	•	•
Harmonics	•	•	•
Power and energy	•	•	•
Energy loss calculator	•	•	•
Unbalance	•	•	•
Monitor	•	•	•
Inrush	•	•	•
Event waveform capture		•	•
Flicker		•	•
Transients		•	•
Mains signaling		•	•
Power wave		•	•
Power inverter efficiency	•	•	•
400Hz			•
C1740 Soft Case	•	•	<u> </u>
C437-II Hard Case with rollers			•
SD card (Max 32 GB)	8 GB	8 GB	8 GB

Recommended Accessories





I5SPQ3 3 pack of 5 A precision current clamps See page 141

16000S FLEX





C437-II Water-tight hard case with rollers See page 145

I430-FLEXI-TF-4PK 6000A Fluke 43X Thin Flexi 24inch 4 Pack See page 92

Energy Loss Calculator

		6 0.0	3:06	NP BERG
		Total	Loss	Cost
Effective	kU	35.9	U 488 s	45.F3 /h
Reactive	kvar	215	U 175 s	17.49 /h
Unbalance	kUR	2.52	U 1.5 s	B.15 Zhi
Distortion		7.17	U 57.2 s	5.72 m
Neutral	A	29.3	U 57.7 s	5.27 m
Total			k S	883 A

Included Accessories

TL430 Test Lead and Alligator Clip Set, i430flex-TF-II (60cm 4 Clamps) BC430 Power Adapter, BP290 Single Capacity Li-ion Battery, International Plug Adapter Set, WC100 Colour Coding Clips and Regional Decals, 8GB SD Card, PowerLog on CD, USB Cable A-B Mini, C1740 Soft Case (434-II, 435-II), C437 Hard Case (437-II).

Ordering Inf	ormation
FLUKE-437-II	400Hz Three-Phase Power Quality and Energy Analyser
FLUKE-437-II/ BASIC	400Hz Three-Phase Power Quality and Energy Analyser (without Clamps)
FLUKE-435-II	Three-Phase Power Quality and Energy Analyser
FLUKE-435-II/ BASIC	Three-Phase Power Quality and Energy Analyser (without Clamps)
FLUKE-434-II	Three-Phase Energy Analyser
FLUKE-434-II/ BASIC	Three-Phase Energy Analyser (without Clamps)

Fluke 1730 Three-Phase Electrical **Energy Logger**











The Fluke 1730 Three-Phase Electrical Energy Logger introduces a new simplicity to discovering sources of electrical energy waste. Discover when and where energy in your facility is being consumed; from the service entrance to individual circuits. Profiling energy usage across your facility helps you identify opportunities for energy savings, and provides you with the data you need to act on them.

- Key measurements: Voltage, Current, Power, Power Factor and associated values enable energy saving strategies to be implemented.
- Bright, colour touch screen: Perform convenient in-the-field analysis and data checks with full graphical display.
- Highest safety rating in the industry: 600 V CAT IV/1000 V CAT III rated for use at the service entrance and downstream
- Comprehensive logging: All measured values are automatically logged and can be reviewed during logging and before downloading for on-the-go analysis. More than 20 separate logging sessions can be stored on the instrument.
- Two USB ports: One for PC connection and another for fast, simple download to standard $\hat{\textbf{U}} \textbf{SB}$ thumb drives, or other USB devices.
- Optimised measurement accessories: Flat voltage cable and thin flexible current probes ensure easy installation even in tight spaces.
- All new, Energy Analyse application software: Download, analyse and automated reporting for a complete picture of energy saving potential.

Specifications

Accuracy				
Parameter		Range	Resolution	Intrinsic Accuracy at Reference Conditions (% of Reading + % of Full Scale)
Voltage		1000 V	0.1 V	± (0.2 % + 0.01 %)
	iFlex1500-12	150 A	0.1 A	± (1 % + 0.02 %)
	IFIEX1500-12	1500 A	1 A	± (1 % + 0.02 %)
	iFlex3000-24	300 A	1 A	± (1 % + 0.02 %)
Current:	IFIEX3000-24	3000 A	10 A	± (1 % + 0.02 %)
Direct input	iFlex6000-36	600 A	1 A	± (1.5 % + 0.03 %)
	IFIEXOUUU-36	6000 A	10 A	± (1.5 % + 0.03 %)
	:40- III -1	4 A	1 mA	± (0.7 % + 0.02 %)
	i40s-EL clamp	40 A	10 mA	± (0.7 % + 0.02 %)
Frequency		42.5 Hz to 69 Hz	0.01 Hz	± (0.1 %)
Aux input	,	± 10 V dc	0.1 mV	± (0.2 % + 0.02 %)
Voltage Min/Max	(1000 V	0.1 V	± (1 % + 0.1 %)
Current Min/Max		defined by accessory	defined by accessory	± (5 % + 0.2 %)
Cosφ/DPF		0 <= Cosφ <=1	0.01	± 0.025
Power factor		0 <= PF <= 1	0.01	± 0.025
THD on voltage		1000 %	0.1 %	± (2.5 % ± 0.05 %)
THD on current		1000 %	0.1 %	± (2.5 % ± 0.05 %)

Operating temperature	-10 °C to +50 °C
Storage temperature	-20 °C to +60 °C
Operating humidity	10 °C to 30 °C max. 95 % RH 30 °C to 40 °C max. 75 % RH 40 °C to 50 °C max. 45 % RH
Operating altitude	2000 m (up to 4000 m derate to 1000 V CAT II/600 V CAT III/300 V CAT IV)
Storage altitude	12,000 m
External protection	Holster, Kensington lock slot

Recommended Accessories





3000A 24 inch, 3 pk See page 92

117XX-FLEX 3000/3PK 117XX-FLEX 6000/3PK 6000Å 36 inch, 3 pk See page 92





173X-HANGER KIT Hanging strap Kit

I40S-EL/3PK 40A Clamp-on Current Transformer 3 pack

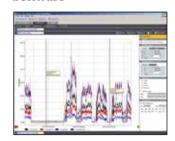




C17XX Soft case

3PHVL-1730

Fluke Energy Analyse Software



Included Accessories

3 x i1730-flex 1500 (iFlex Flexible Current Probe 1500A 12 inch). 2 x 1730TL0.1M (Test lead; Straight Plug; 0.1m; Silicon; Red), 3PHVL-1730 (Cable Assembly, Voltage Test Lead 3-Phase+N), 1730-TL2M (Test Lead, Straight Plug; 2m; PVC Red), C1730 Soft Case, WC100 Colour Localisation Set, 4 x Dolphin Clamps

Ordering Information

FLUKE-1730

Three-Phase **Energy Logger**

Fluke 1736 and 1738 **Three-Phase Power Loggers**







Fluke 1736









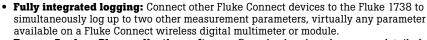




More visibility, reduced uncertainty

The Fluke 1736 and 1738 Three-Phase Power Loggers built with Fluke Connect® mobile app and desktop software compatibility give you the data you need to make critical power quality and energy decisions in real-time. The ideal test tools for conducting energy studies and basic power quality logging, the 1736 and 1738 automatically capture and log over 500 power quality parameters so you have more visibility into the data you need to optimise system reliability and savings.

- Measure all three phases and neutral with included 4 flexible current probes.
- Comprehensive logging: More than 20 separate logging sessions can be stored on the instruments. In fact, all measured values are automatically logged so you never lose measurement trends.
- Capture dips, swells, and inrush currents: Includes event waveform snapshot and high resolution RMS profile, along with date, timestamp and severity to help pinpoint potential root causes of power quality issues
- Optimised user interface: Capture the right data every time with quick, guided, graphical setup and reduce uncertainty about your connections with the intelligent verification function
- Complete "in-the-field" setup through the front panel or Fluke Connect App: No need to return to the workshop for download and setup or to take a computer to the electrical



Energy Analyse Plus application software: Download and analyse every detail of energy consumption and power quality state of health with our automated reporting.

Specifications

Accurac	У			
Parame	ter	Range	Max resolution	Intrinsic accuracy at reference conditions (% of reading + % of full scale)
Warrant	У	1000 V	0.1 V	± (0.2 % + 0.01 %)
	i17xx-flex 1500 12"	150 A 1500 A	0.1 A 1 A	± (1 % + 0.02 %) ± (1 % + 0.02 %)
Current	i17xx-flex 3000 24"	300 A 3000 A	1 A 10 A	± (1 % + 0.03 %) ± (1 % + 0.03 %)
Current	i17xx-flex 6000 36"	600 A 6000 A	1 A 10 A	± (1.5 % + 0.03 %) ± (1.5 % + 0.03 %)
	i40s-EL clamp	4 A 40 A	1 mA 10 mA	± (0.7 % + 0.02 %) ± (0.7 % + 0.02 %)
Frequen	су	42.5 Hz to 69 Hz	0.01 Hz	± (0.1 %)
Aux inpu	ıt	± 10 V DC	0.1 mV	± (0.2 % + 0.02 %)
Voltage	min/max	1000 V	0.1 V	± (1 % + 0.1 %)
Current	min/max	defined by accessory	defined by accessory	± (5 % + 0.2 %)
THD on	voltage	1000 %	0.1 %	± 0.5
THD on	current	1000 %	0.1 %	± 0.5
Voltage 50th	harmonics 2nd	1000 V	0.1 V	≥ 10 V: ± 5 % of reading < 10 V: ± 0.5V
Current 1 50th	harmonics 2nd	defined by accessory	defined by accessory	≥ 3 % of current range: ± 5 % of reading < 3 % of current range: ± 0.15 % of range
Unbalance		100 %	0.1 %	± 0.2

Recommended Accessories





C17XX

117XX-FLEX 1500/3PK/4PK

1500A 12 inch iFlex®
Current Clamps
Purchase as individual, 3pk or 4pk)
See page 92



I17XX-FLEX 3000/3PK/4PK 3000A 24 inch iFlex® Current Clamps

(Purchase as individual, 3pk or 4pk) See page 92







117XX-FLEX 6000/3PK/4PK 6000A 36 inch iFlex®

Current Clamps as individual, 3pk or 4pk) See page 92



for 4mm banana

Set of 4



FLUKE-173X AUX



117XX 140S-EL/3PK

40A Clamp-on Current Transformer urchase as individual or 3pk) See page 92

1736/UPGRADE

Upgrade Kit for 1736 to 1738 Image unavailable

Included Accessories

Power Supply, Voltage Test Leads, Alligator Clips (4x), 12in 1500A Flexible Current Probe (4x), Soft Case, Energy Analyse Plus Software, WiFi Adapter, Line Cords, Colour Coding Set and Documentation on USB Flash Drive, Magnetic Hanging Strap (1738 only), Magnetic Voltage Probes (4x) (1738 only)

Ordering Information

FLUKE 1736/B

Power Logger, Basic Version (excl. current probes)

FLUKE-1736/INTL

Power Logger, International Version (incl. current probes)

FIUKE 1738/B Power Logger,

Advanced Version (excl. current probes)

FLUKE-1738/INTL Power Logger, International Advanced Version (incl. current probes)

Contact your local distributor for price and availability.

www.fluke.com/au/wtb

Fluke 1740 Series Three-Phase **Power Quality Loggers Memobox**



Fluke 1744



Fluke 1745



Compact and rugged, the Fluke 1740 Series Three-phase Power Quality Loggers are everyday instruments for technicians who troubleshoot and analyse power distribution systems. Capable of simultaneously logging up to 500 parameters for up to 85 days and capturing events, the Fluke 1740 Series helps uncover intermittent and hard-to-find power quality issues. The included Power Quality Log Software quickly assesses the quality of power at the service entrance, substation, or at the load, according to the latest EN50160 standard.

- Plug and play: Setup in minutes with automatic current probe detection and powering
- Installs inside the cabinet: Compact, fullyinsulated housing and accessories fit easily in tight spaces, next to live power
- Determines the root cause: Included PQ Log software quickly analyses trends, creates statistical summaries, and generates detailed graphs and tables
- Measure voltage with premium accuracy: IEC61000-4-30 Class-A compliant voltage accuracy (0.1 %)

Loggers for every application

The portable Fluke 1740 Series power quality loggers are designed for easy installation and use, anywhere in low- and medium-voltage applications. There are three models to choose from to meet your basic or advanced power logging needs:

Fluke 1743: IP65 water-proof model for logging the most common power parameters including V, A, W, VA, VAR, PF, energy, flicker, voltage events, and THD.

Fluke 1744: Includes the same features as the Fluke 1743. In addition to common power parameters, the Fluke 1744 also measures voltage and current harmonics, inter-harmonics, mains signalling, unbalance, and frequency.

Fluke 1745: Advanced IP50 power quality logger with the same measurement capability as the 1744, plus real-time LCD and five hour UPS.

Selection Guide

	1745	1744	1743
Measurement of common power parameters: V, A, W, VA, VAR, PF, energy, flicker, voltage events (dips, swells, interruptions), and THD	•	•	•
Measurement of voltage and current harmonics to the 50th, unbalance, frequency and mains signaling	•	•	
Dust/water resistance	IP 50	IP 65 wa	aterproof
Display	LED + LCD	LED	LED
Memory	8 MB	8 MB	8 MB
UPS ride-through	> 5 hrs	3s	3s
EN 50160	•	•	•

Specifications

General	
Intrinsic error	Refers to the reference conditions and is guaranteed for two years
Warranty	2 years
Recalibration interval	2 years recommended
Quality system	Developed, designed, and manufactured according to DIN ISO 9001
Reference conditions	23 °C \pm 2 K; 74 °F \pm 2 K , Vm = 230 V \pm 10 % 50 Hz \pm 0.1 Hz or 60 Hz \pm 0.1 Hz Phase Sequence L1, L2, L3 Interval Length: 10 minutes Wye Connection (L1, L2, L3 to N) Power Supply: 88 V to 265 V AC

Recommended Accessories FS17XX IP65-TF FS17X5-TF-II 3000A 4-Phase Thin Flexi Set (1745 only) 3000A IP65 4-Phase Thin Flexi Set See page 92 I1A/10A CLAMP PQ3 3-Phase 1A/10A Mini Current Clamp See page 92 FS3000/6000A-TF-4 Thin Flexi Set 90cm See page 92 I1A/10A CLAMP PQ4 4-Phase 1A/10A Mini Current Clamp I20/200A CLAMP PQ3 3-Phase 20A/200A Mini Current Clamp See page 92 See page 92 120/200A CLAMP PO4 15A/50A CLAMP PO3 3-Phase 5A/50A Mini Current Clamp See page 92

Included Accessories

See page 92

ISA/SOA CLAMP PO4 Phase 5A/50A Mi Current Clamp See page 92

FS17XX IP65 TF-II Thin Flexible Current Clamp Set (1743 & 1744), FS17X5-TF-II Thin Flexible Current Clamp Set (1745), VL1735/1745 Voltage Lead Set (1745), Power Log Software, RS232 Interface Cable and RS232-USB Adapter, 4x Black Dolphin Clips, WC17XX Colour Localisation Set, Carrying Bag, Test Certificate with Measurement Values, Manual on CD.

Ordering In	formation
FLUKE-1745	Power Quality Logger Memobox
FLUKE-1744	Power Quality Logger Memobox
FLIIKE-1743	Power Quality

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Logger Memobox

Fluke 1750 Three-Phase Power Recorder



Fluke 1750





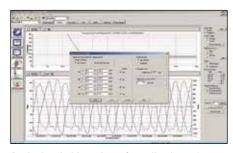
Record every power quality parameter, every cycle, all the time

Setting up a Power Quality Analyser to capture detailed power quality data has never been easier than it is with the Fluke 1750. This Three-Phase Power Recorder captures the most important data for up to 30 days without losing the most important details. It automatically records every power quality parameter and event, on every cycle – all the time. Once the data is captured; download via Ethernet or directly to the 2GB SD card (without the need of any other device). The Fluke 1750 features a wireless front panel for viewing measurements, data and setting up, implemented via a tablet computer using Bluetooth communication.

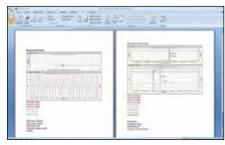
- Power quality that meets the standard: All measurements comply with IEC61000-4-30 standards for correct evaluation of all measured values including voltage, current, power, harmonics, flicker etc.
- Quick and reliable configuration: PDA wireless "front panel interface" provides a window into what the instrument is recording, enabling quick and reliable configuration even in awkward test locations
- Threshold-free set up: Apply thresholds after data is collected with Fluke Power Analyse Software—no need to worry about missed information due to incorrect setups
- Captures everything: Cross-channel and current triggering capture every measurement, on every channel, every time
- Measure every parameter: Voltage and current on three phases, neutral and ground
- 5 MHz, 8000 Vpk waveform capture: Get a detailed picture of even the shortest events.
- Plug and play: Set up in minutes with self-identifying current probes and single-lead voltage connections.
- No need to reconnect wires: Swap channels internally with the wireless front panel or PC when connections are not correct.

Specifications

Power Quality Measurement Star	adards
Conformance	IEC 61999-1-4 Class 1, IEC 61000-4-30, IEEE519, IEEE1159, IEEE1459 and EN50160
Clock/calendar	Leap years, 24-hour clock
Real-time clock accuracy	Not more than ± 1 s/day
Internal memory capacity for data	At least 2 GB
Maximum recording period	At least 31 days
Measurement time control	Automatic
Maximum number of events	Limited only by the size of the internal memory
Power requirements	100 to 240 V RMS ± 10 %, 47-63 Hz, 40 W
Operating time during interruptions (internal UPS operation)	5 mins per interruption, 60 mins total operating time without recharging
Size	215 mm x 310 mm x 35 mm
Weight	6.3 kg



Apply thresholds to data after collection using a variety of standard or customised templates.



Simplified report writer feature included in Fluke Power Analyse Software.





Included Accessories

ARCHOS 43 Internet Tablet and Charger Power Plug Adapters, 4 – 400A Current Probes (3140), 5 Test Leads and Clips, SD Memory Card, Fluke Power View and Fluke Power Analyse Software, Power Cord with International Plug Set, Ethernet Cable, Colour Localisation Set, Soft Carrying Case, Printed Getting Started Manual, CD with Software and User Manual PDF

Ordering Information

FLUKE-1750

Three-Phase Power Quality Recorder

Fluke 1760 Three-Phase Power **Quality Recorder**



Fluke 1760







Class-A compliance for the most demanding power quality tests

The Fluke 1760 Three-Phase Power Quality Recorder is fully compliant to IEC 61000-4-30 Class-A, for advanced power quality analysis and consistent compliance testing. Designed for analysis of utility and industrial power distribution systems, in medium and lowvoltage networks, the Fluke 1760 provides the flexibility to customise thresholds, algorithms, and measurement selections. It has 8 input channels (4 currents/4 voltages or 8 voltages), and captures the most comprehensive details on user selectable parameters.

- Fully Class-A compliant: Conduct tests according to the stringent international IEC 61000-4-30 Class-A standard
- GPS time synchronisation: Correlate data with events or datasets from other instruments with precision
- Flexible and fully configurable thresholds and scale factors: Allows user to pinpoint specific issues by defining the detailed criteria for detection and recording of disturbances.
- 10 MHz, 6000 Vpk waveform capture: Get a detailed picture of even the shortest
- 2 GB data memory: Enables detailed, simultaneous recording of numerous power parameters for long periods of time
- Comprehensive software (included): Provides trend diagrams for root cause analysis, statistical summaries, report writing and real-time data monitoring in the online mode
- Plug and play: Allows quick setup with automatic sensor detection; sensors are instrument powered, eliminating the need for batteries

Specifications

	1760 Basic	1760TR Basic	1760 INTL	1760TR INTL
Power quality statistics according to EN50160	•	•	•	•
Voltage event list (dips, swells and interruptions)	•	•	•	•
Continuous recording of:				
Voltage	•	•	•	•
Current	•	•	•	•
Power P, Q, S	•	•	•	•
Power factor	•	•	•	•
kWh	•	•	•	•
Flicker	•	•	•	•
Unbalance	•	•	•	•
Frequency	•	•	•	•
Voltage and current harmonics to the 50th/ Interharmonics	•	•	•	•
THD	•	•	•	•
Mains signaling	•	•	•	•
Triggered recordings	•	•	•	•
Online mode (Oscilloscope, transients and events)	•	•	•	•
Fast transient analysis up to 10 MHz		•		•
4, 600V voltage probes			•	•
4 dual-range flexible current probes (1000 A / 200 A AC)			•	•
GPS time sync receiver			•	•
Memory		2 GB Flash	n memory	

Recommended Accessories





TPS FLEX 18-TF-II

TPS CLAMP 10A/1A





TPS FLEX 24-TF-II Flexible Current Probe

TPS CLAMP 50A / 5A Clip-on Current Transformer

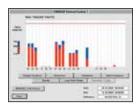




TPS FLEX 36-TF-II Flexible Current Probe (Range: 30Å to 3000Å /60A to 6000A)

TPS VOLTPROBE

1 KV 1000V Voltage Probes (Range: 10V to 1700V)



The included PQ Analyse software provides a detailed overview of several power quality parameters.

Included Accessories

4x TPS Flex 24-TF-II Flexible Current Probes, 4x TPS VoltProbe 600V 2GB Internal Flash Memory, ST1760 Standard Ethernet Cable, RS232 Interface Cable and RS232-USB Adapter, CS1760 Crossover Ethernet Cable, 1 Mains Cable, PC Software on CD, WC17XX Colour Localisation Set, GPS-time Sync (1760TR only) CS 1750/1760 Carrying Bag, Hardware and Software Manual

Basic Models: Excl. Current Clamps TPS Flex 24-TF-II.

Ordering Information

FLUKE-1760TR INTL

High Speed Transient Power Quality Recorder Topas and Kit

FLUKE-1760TR BASIC

High Speed Transient Power Quality Recorder

Topas

FLUKE-1760 INTL **Power Quality**

Recorder Topas and Kit

FLUKE-1760 BASIC Power Quality

Recorder Topas

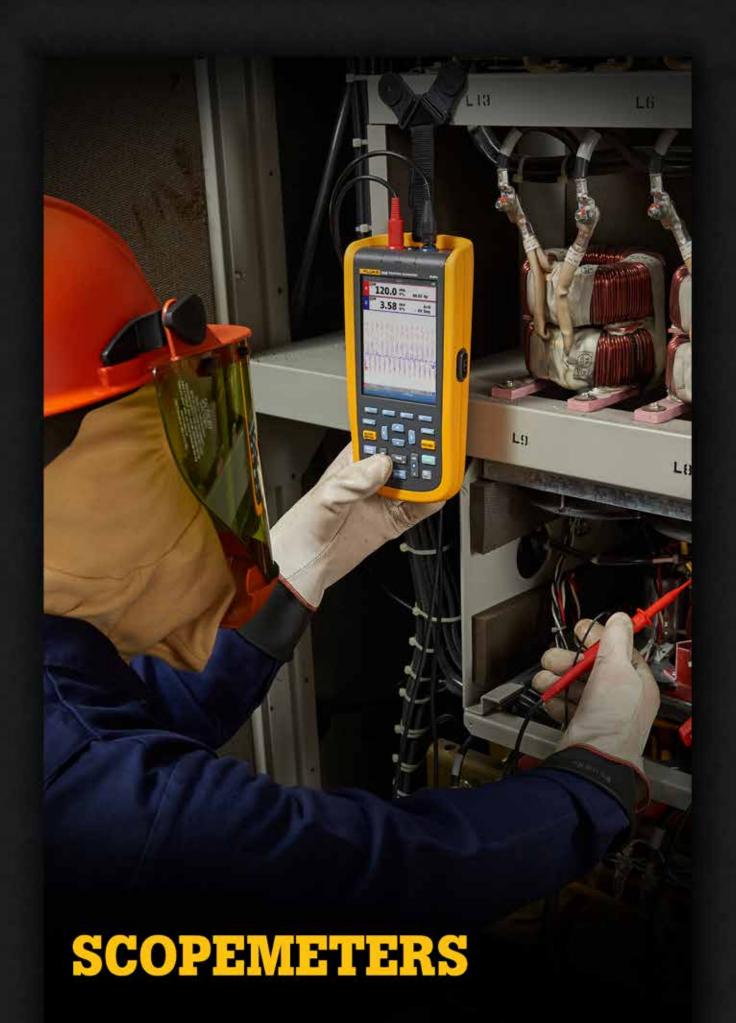
Power Quality Current Clamps

Fluke Model Number	i3000 Flex 4PK	i400s	i430-FLEXI- TF-4K	i5sPQ3	1000A 3210 PR TF Iflex	Fluke i17XX-flex 1500A 12 IN	Fluke i17XX-flex 3000A 24 IN	Fluke i17XX-flex 6000A 36 IN	Fluke i17XX i40s-EL Clamp-on Current Transformer
Description	4 phase 3000A Flexible current clamp set	Single phase 400A current clamp (4 required)	4 phase 3000A Flexible current clamp set	3 phase 5A Current clamp set	1000A Single phase flexible current clamp	1500 A Single phase flexible current clamp IP 50	3000 A Single phase flexible current clamp IP 50	6000 A Single phase flexible current clamp IP 50	4/40A Current clamp (3 required)
Old Fluke model #					3210-PR	Fluke-1730 iFlexi 1500 A 12 IN	Fluke–1730 iFlexi 3000 A 24 IN	Fluke-1730 iFlexi 6000 A 36 IN	Fluke-1730 i40s-EL Clamp-on Current Transformer
Fluke 1750					•				
Fluke 43X	•	•	•	•					
Fluke 1730						•	•	•	•
Nominal current range(s)	30 A 300 A 3000 A	40 A 400 A	3000 A	5 A		1A to 150A, 10A to 1500A	3A to 300A, 30A to 3000A	6A to 600A, 60A to 6000A	40mA to 4A, 0.4A to 40A
Cont. AC current range	1 A 30 A 1 A 300 A 1 A 2400 M	0.5 A 40 A 5 A 400 A	30 A 3000 A	0.01 A 6 A	0.5 A 1000 A	1 A 150 A 10 A to 1500 A	1A 300 A 10 A 3000A	1 A 600 A 10 A 6000 A	1 A 150 A 10 A 1500 A
Highest current	4000 A	1000 A	100 kA	70 A	1000 A	1500 A	3000 A	6000 A	200 A
Lowest measurable current	1:00 AM	0.5 A	30 A	10 mA	0.5 A	1 A	3 A	6 A	0.04 A
Basic accuracy (48 65 Hz) 1)	2% + 2 A	2% + 0.15 A	1%	1%	± 1% of reading	0,70%	0,70%	0,70%	0,50%
Usable frequency	10 Hz 100 kHz	45 Hz 3 kHz	10 Hz 7 kHz	40 Hz 5 kHz	40 Hz 5 kHz	40 Hz 5 kHz	40 Hz 5 kHz	40Hz 5kHz	40Hz 5kHz
Requires battery	•								
Flex head length		Clamp opening: 32mm	61 cm	Clamp opening: 15mm	61cm	30.5cm	61cm	122cm	n/a
Output level(s)	10 mV/A 1 mV/A 0.1 mV/A	10 mV/A 1 mV/A	0.085 mV/A @50 Hz	400 mV/A	2 mV/A	n/a	n/a	n/a	n/a
Output cable (m)	2,1	2,5	2,5	2,5	3	2	2	2	2
Safety rating	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V
Connection	4 x BNC	4 x BNC	4 x BNC	3 x BNC	One connector	One connector	One connector	One connector	One connector
BNC to banana adapters included	•	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

¹ Basic accuracy: % reading plus floorspec. n/a = not applicable

Fluke Model Number	i1A/10A CLAMP PQ3	IIA/10A CLAMP PQ4	i5A/50A CLAMP PQ3	i5A/50A CLAMP PQ4	I20A/200A CLAMP PQ3	i20A/200A CLAMP PQ4	3000/6000A-TF-4	FS17X5-TF-II	FS17xx IP65-TF
Description	3 phase 1A/10A Mini current clamp set	4 phase 1A/10A Mini current clamp set	3 phase 5A/50A Mini current clamp set	4 phase 5A/50A Mini current clamp set	3 phase 20A/200A Mini current clamp set	4 phase 20A/2000A Mini current clamp set	4 Phase flexiset	4 Phase flexiset, IP41	4 Phase flexiset, IP65
Old Fluke model #	CURRENT CLAMPS 1 A (EPO450A)	MBX CLAMP 1A/10A+N (EP0451A)	MBX CLAMP 5A/50A (EP0452A)	MBX CLAMP 5A/50A+N (EP0453A)	MBX CLAMP 20A/200A (EP0455A)	MBX CLAMP 20/2000A+N (EP0456A)		MBX Lem Flex (15/150/3000) (EP0404A)	MBX Lem Flex (15/150/3000) (EP0404A)
Fluke 1735	•	•	•	•	•	•	•	•	•
Fluke 174X	•	•	•	•	•	•	•	•	•
Nominal current range(s)	1 A 10 A AC	1 A 10 A AC	5 A 50 A AC	5 A 50 A AC	20 A 200 A AC	20 A 200 A AC	30A 300A 3000A 6000A AC	15A 150A 1500A 3000A AC	15A 150A 1500A 3000A AC
Cont. AC current range	10 mA 1 A 100 mA 10 A	10 mA 1 A 100 mA 10 A	50 mA 5 A 500 mA 50 A	50 mA 5A 500 mA 50 A	200 mA 20 A 2 A 200 A	200 mA 20 A 2 A 200 A	0.8 6.000 A AC	450mA 15A 600mA 150A 6A 1500A 12A 3000A	450mA 15A 600mA 150A 6A 1500A 12A 3000A
Highest current	20 A	20 A	100 A	100 A	300 A	300 A	0.8 A	3300 A	3300 A
Lowest measurable current	10 mA	10 mA	50 mA	50 mA	200 mA	200 mA		450 mA	450 mA
Basic accuracy (48 65 Hz) 1)	0,50%	0,50%	0,50%	0,50%	0,50%	0,50%		2%+2% position influence	2%+2% position influence
Usable frequency	40 Hz 10 kHz	40 Hz 10 kHz	40 Hz 10 kHz	40 Hz 10 kHz	40 Hz 10 kHz	40 Hz 10 kHz		40Hz5kHz	40Hz5kHz
Flex head length							92 cm	61 cm	61 cm
Output level(s)	75 mV/A	75 mV/A	15 mV/Å	15 mV/Å	3.75 mV/A	3.75 mV/A		0.1 mV/A	0.1 mV/A
Output cable (m)	2	2	2	2	2	2	4	2	2
Safety rating	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V+	CAT III 1000 V CAT IV 600V	CAT III 1000 V CAT IV 600V	CAT III 1000 V CAT IV 600V
Connection	One connector	One connector	One connector	One connector	One connector	One connector	One connector	One connector	One connector
BNC to banana adapters included	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

 $^{^{\}mbox{\tiny 1}}$ Basic accuracy: % reading plus floorspec. n/a = not applicable



Fluke ScopeMeter® Portable Oscilloscopes 190 Series II





With four electrically isolated channels, up to a 2.5gs/s sample rate, IP-51 dust-proof and dripproof rating and a CAT III 1000V / CAT IV 600 V safety rating, Fluke's 190 Series II Portable Scopes stand up against the rest.

Rated all the way to CAT IV

ScopeMeter test tools are rugged solutions built for industrial troubleshooting. The Fluke 190 Series II are double-insulated floating oscilloscopes safety rated for measurements up to CAT III 1000 V /CAT IV 600 V environments.

What could you do with four channels?

The toughest Portable Scopes ever built

The 190-504 opens up a new generation of applications where a four channel ScopeMeter can proof its functionality. You can hook on voltage probes and current clamps in combination with a temperature probe to get the best information out of your signals without sacrificing a probe input. In a Motor and Drive environment you need at least three inputs to get a good insight in the quality of the signal coming from the VFD. You can switch over to a DMM reading without swapping probes.

Measure from mV to kV safely

Independently isolated inputs allow you to make measurements in mixed circuits having different ground references reducing the risk of accidental short circuits. Conventional bench oscilloscopes without special differential probes and isolation transformers can only reference measurements to line power earth ground. The 190 Series II are ready for the most challenging tasks. With standard probes that cover a wide application range from mV to kV, you are ready for anything from microelectronics to heavy-duty higher voltage electrical applications.

IP-51 rated for harsh environments

Rugged and shock-proof, ScopeMeter portable oscilloscopes are built for dirty, hazardous environments. With its sealed case, it can endure dust, drips, humidity and airborne pollutants. Every time you reach for your ScopeMeter you can be confident it will work reliably wherever your work takes you.

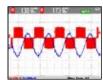
instantly

system under test.



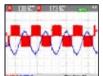
USB connectivity makes it easy to capture and share waveforms

The Fluke 190 Series II offers two USB ports. electrically isolated from measurement input circuits. Easily transfer data to a PC. Archive and share waveforms with OEMs, colleagues and support staff. Store waveforms, screen captures and instrument setups onto USB memory devices.



Connect-and-View™ triggering for an instant, stable display

If you've used other scopes, you know how tricky triggering can be. If settings are incorrect, results can be unstable or incorrect. Connect-and-View™ automatically sets up correct triggering by recognising signal patterns. Without touching a button, you get a stable, reliable and repeatable display of virtually any signal including motor drive and control signals. It's especially fast and convenient when you're measuring a number of test points in rapid succession.



Built-in 5000 count digital multimeter (2 channel models)

changes instantaneously, useful for

instance when making adjustments to a

See dynamic signal behaviour

The digital Persistence mode helps to

find anomalies and to analyse complex

amplitude distribution over time using

dynamic signals by showing the waveforms

multiple intensity levels and user selectable

decay time - it's as if you're looking at the

display of an analog, real time oscilloscope! A fast display update rate reveals signal

Conveniently switch from waveform analysis to precise multimeter measurements using the built in 5000 count digital multimeter. Measurement functions include VDC, VAC, VAC+DC, resistance, continuity and diode test. Measure current and temperature using suitable shunt, probe or adapter with wide range of scaling factors.



Connect-and-View³ captures even the most complex motor drive signals.

Automatic capture and replay of 100

Scope users know how frustrating it is to see a one-time anomaly flash by, never to be seen again. Not with the ScopeMeter 190-II! Now you can look back in time with the touch of a button. In normal use, the instrument continuously memorises the most recent 100 screens. At any moment in time, you can 'freeze' these latest screens and scroll through them picture-by-picture or replay them as a 'live' animation. Cursors and zoom can be used for further analysis. You can even use the advanced trigger capabilities to capture up to 100 specific events. Ten sets of 100 screens with individual time stamps can be stored for later recall or download to a PC.



200 ...

The built in multimeter provides convenient precision measurements.

422. +101.



S Version Kit Package

SCC290 FlukeView ScopeMeter Software Package (full version) and C290 Carrying Case Kit available to order with Fluke 190-Series II ScopeMeter models.



Fluke ScopeMeter® Portable Oscilloscopes 190 Series II



Fluke 190-504



Fluke 190-202







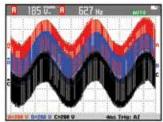


Fluke 190 Series II ScopeMeter Portable Oscilloscopes are the first high-performance scopes built for harsh industrial environments Introducing the first high-performance portable oscilloscopes with 2 or 4 independently insulated in put channels, an IP51 dust- and drip water proof rating and a CAT III 1000 V/CAT IV 600 V safety rating.

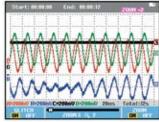
Choose from 500 MHz, 200 MHz, 100 MHz or 60 MHz bandwidth models. Now plant maintenance engineers can take a 2- or 4-channel scope into the harsh world of industrial electronics.

- Up to four independent floating isolated inputs, up to 1000V
- Up to 5 GS/s real time sampling (depending on model and channels used)
- Deep memory: 10,000 points per trace waveform capture (scope mode)
- CAT III 1000 V/CAT IV 600 V safety rated instrument for industrial environments
- Up to seven hours of battery operation using BP291
- Isolated USB host port for direct data storage to a USB memory device;
- USB device port for easy PC communication
- Compact and only 2.2 kg
- Security slot: lock down oscilloscope with Kensington® lock while unattended
- IP51 rating, dust- and drip-proof
- Connect-and-View[™] triggering for intelligent, automatic triggering on fast, slow and even complex signals
- Frequency spectrum using FFT-analysis
- Automatic capture and REPLAY of 100 screens
- ScopeRecord[™] Roll mode gives 30,000 points per input channel for low frequency signal analysis
- TrendPlot™ paperless recorder mode with deep memory for long-term automatic measurements
- 5,000 count DMM included in the 2-channel models

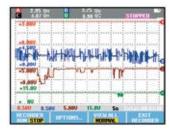
Sample Screens



Connect-and-ViewTM captures even the most complex motor drive signals.



Use the 27,000 points memory of ScopeRecord and zoom in for maximum detail.

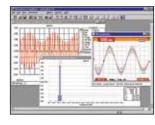


Cursors and zoom features of the Fluke 190 Series II help you to analyse the captured TrendPlot.

FlukeView ScopeMeter Software for documenting, archiving and analysis

Get more out of your ScopeMeter with FlukeView* ScopeMeter* SW90W Software for Windows.

- Documentation—transfer waveforms, screens and data to your PC for printing or importing data into a report
- Add text to ScopeMeter settings give operators guidance when recalling settings
- Analysis—use cursors, perform spectrum analysis or export data to an other analysis program



Contact your local distributor for price and availability. www.fluke.com/au/wtb

Specifications

	190-062	190-102	190-202	190-502	190-104	190-204	190-504
Bandwidth (MHz)	60	100	200	500	100	200	500
Scope Inputs	2	2	2	2	4	4	4
Dedicated DMM	1	1	1	1	-	-	-
Dual Input Trendplot™	•	•	•	•	-	-	-
Four Input Trendplot™	-	-	-	-	•	•	•
ScopeRecord Mode	•	•	•	•	•	•	•
Automatic Capture & Replay Mode	•	•	•	•	•	•	•
Cursors	•	•	•	•	•	•	•
Zoom	•	•	•	•	•	•	•
Bus Health Test Mode	-	-	-	-	-	-	-
Advanced Power Measurements	•	•	•	•	•	•	•
EN61010-1 CAT III Safety Rating	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
EN61010-1 CAT IV Safety Rating	600 V	600 V	600 V	600 V	600 V	600 V	600 V
Battery	4 hr Li- Ion (8 hr Opt)	4 hr Li- Ion (8 hr Opt)	7 hr Li- Ion	7 hr Li- Ion	7 hr Li- Ion	7 hr Li- Ion	7 hr Li-Ion
Optical RS-232	-	-	-	-	-	-	-
Isolated USB	•	•	•	•	•	•	•
Isolated USB Memory	•	•	•	•	•	•	•

Fluke 190 Series II ScopeMeter® Portable Oscilloscopes Accessories









TRM50

VPS410-II-R

VPS410-X

VPS210-X

		190 Series-II	
	VPS410-II-R	VPS410-X	VPS210-X
Description	Voltage Probe	Voltage Probe	Voltage Probe
Colours available	Red	Grey, Blue, Green	Red and Grey
Attenuation	100:1	10:1	10:1
Bandwidth	150MHz	500MHz	200MHz
Length	1.2m	1.2m	1.2m
Safety Rating CAT II			
Safety Rating CAT III	1000V	1000V*	300V
Safety Rating CAT IV	600V	600V*	

^{*} High working Voltage Probe is specified for working voltages (between probe tip an reference lead) up to 2000V in CATII or 1200V in CAT IV environment. Reference lead voltage (between reference lead and earth ground): 1000V in CATIII, 600V in CATIV. These specifications apply only when used with Fluke 190 Series-II Test Tool.









PM9091 / PM9092

PM9081

PM9093

	PM9091	PM9092	PM9081	PM9082	PM9093
Description		50Ω, BNC cable Black, 1 Grey)	Dual banana plug male to female BNC	Dual banana jack female to male BNC	Male BNC to dual female BNC (T-piece)
Length	1.5 m each	0.5 m each			
Safety Rating CAT III	600 V	600 V	600 V	600 V	600 V













RS400

AS400

BP290

BP291

OC4USB

FBC290

	190 Series II Optional Accessories
AS400	Probe Accessory Extension Set for VPS400 Series Voltage Probes
BC190/807	Battery charger Australia
BC190/808	Battery charger Universal
BP290	Single Capacity, Rechargeable Li-Ion Battery Pack, 2400 mAh
BP291	Double Capacity, Rechargeable Li-Ion Battery Pack, 4800 mAh
C195	Protective Carrying Case
C290	Hard Shell Protective Carrying Case
C437-II	Hard Shell, Protective Carrying Case with rollers
EBC290	External Battery Charger
HC120	2 Hook Clip Replacement Set
HH290	Hanging Hook
OC4USB	Optically-Isolated USB Interface Cable
RS400	Probe Accessory Replacement Set for VPS400 Series Voltage Probes
RS500	Probe Accessory Replacement Set for VPS510 Series Voltage Probes
SCC290	Software and Carrying Case Kit
sw90w	FlukeView® ScopeMeter® software for Windows®
TL175	TwistGuard™ Test Lead Set
TRM50	Coaxial Feed-through BNC male to BNC female Cable terminator, 50 ohm
VPS210-X	Voltage Probe Set, 10:1, 200MHz. X= Red or Grey colour
VPS410-X	High Working Voltage Probe 100:1, 150MHz. X= B(Blue) or G(Grey) or V(Green) colour
VPS410-II-R	Industrial type Voltage Probe, 10:1, 500MHz. R(Red)

Included Accessories

Fluke 190 4-Channel Models: Set of Four Probes, Hanging Strap, Handstrap, USB Cable with mini-B Connector, Double Capacity Li-ion Battery: BP291, Battery Charger/ Power Adapter: BC190, FlukeView Demo Package and User Manuals on CD-ROM.

Fluke 190 2-Channel Models: Set of Two Probes, TL175 Test Leads and a Single Capacity Battery BP290.

Fluke 190-504: Includes 4 pcs TRM50 coaxial feedthrough terminator.

Ordering Information

AU/S

FLUKE-190-504/ Colour ScopeMeter 500MHz, 4 Channel with SCC-290 Kit

FLUKE-190-504/ ΑIJ

Colour ScopeMeter 500MHz. 4 Channel

FLUKE-190-502/

UN/S

Colour ScopeMeter 500MHz, 2 Channel with SCC-290 Kit

FLUKE-190-502/

Colour ScopeMeter 500MHz, 2 Channel

FLUKE-190-204/ AU/S

Colour ScopeMeter 200MHz, 4 Channel with SCC-290 Kit

FLUKE-190-204/ AU

Colour ScopeMeter 200MHz, 4 Channel with SCC-290 Kit

FLUKE-190-202/

AU/S

Colour ScopeMeter 200MHz, 2 Channel

FLUKE-190-202/

with SCC-290 Kit Colour ScopeMeter 200MHz, 2 Channel

FLUKE-190-104/ AU/S

Colour ScopeMeter 100MHz, 4 Channel with SCC-290 Kit

FLUKE-190-104/ AU

Colour ScopeMeter 100MHz. 4 Channel with SCC-290 Kit

FLUKE-190-102/ AU/S

Colour ScopeMeter 100MHz, 2 Channel with SCC-290 Kit

FLUKE-190-102/

Colour ScopeMeter 100MHz, 2 Channel

FLUKE-190-062/ AU/S

Colour ScopeMeter 60MHz, 2 Channel with SCC-290 Kit

FLUKE-190-062/ ΑIJ

Colour ScopeMeter 60MHz, 2 Channel

Contact your local distributor for price and availability. www.fluke.com/au/wtb

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Fluke 120B Series Industrial ScopeMeter® Hand-Held Oscilloscopes





Fluke 125B

(€ @ us N10140

Simplified testing, more insight and faster electro-mechanical troubleshooting

The compact ScopeMeter® 120B Series, is the rugged oscilloscope solution for industrial electrical and electromechanical equipment troubleshooting and maintenance applications. It's a truly integrated test tool, with oscilloscope, multimeter and high-speed recorder in one easy-to-use instrument. The ScopeMeter 120B Series also integrates with Fluke Connect® mobile app and FlukeView® for ScopeMeter software to enable further collaboration, data analysis and archiving of critical test information.

The 120B Series Industrial ScopeMeter Test Tools include innovative functions designed to help technicians troubleshoot faster and get the answers they need to keep their systems up and running. Colour Display Waveforms with Connect and View™ trigger and setup technology and automatically view related numerical measurements using Fluke IntellaSet™ technology, all without making manual

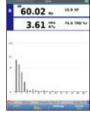
- measurement adjustments.
- Dual-input digital oscilloscope and multimeter
- 40 MHz or 20 MHz oscilloscope bandwidth
- Two 5,000-count true-RMS digital multimeters
- Connect-and-View[™] trigger simplicity for hands-off operation
- $IntellaSet^{\tiny{\texttt{TM}}}\ technology\ automatically\ and\ intelligently\ adjusts\ numerical\ readout\ based\ on$ the measured signal
- Dual-input waveform and meter reading recorder for trending data over extended periods
- With Recorder Event Detect capabilities and expandable mirco SD memory, recording sessions can be done for up to 14 days.
- The ScopeMeter 125B Bus Health Test analyses the electrical signals on the Industrial Network Bus and gives a clear "Good", "Weak" or "Bad" indication mark for each of the relevant parameters used in CAN-bus, Profi-bus, Foundation Field, RS2-232 and more.



Fluke Connect-and-View™ triggering with Auto Reading function using Fluke IntellaSet™ technology.



Easily obtain key power characteristics to vali-date a system power.



Harmonic spectrum to measure the distortion as a percentage of the fundamental.

Connect-and-View™ triggering for an instant, stable

Fluke's unique Connect-and-View™ triggering technology recognises signal patterns, and automatically sets up the correct triggering to provide a stable, reliable and repeatable display. Connect-and-View[™] triggering is designed to work with virtually any signal, including motor drives and control signals-without adjusting parameters, or even touching a button.

IntellaSet[™]/AutoReading

The Auto Readings function with Fluke IntellaSet™ technology uses proprietary algorithms to intelligently analyse the measured waveform and automatically displays the most appropriate numerical measurements on screen, so you can get the data you need easier than ever before.

Dual input to obtain key power measurements

For single phase or 3-phase balanced systems, the dual inputs of the Industrial ScopeMeter® 120B Series can measure AC+DC RMS voltage on channel A and AC+DC RMS current on channel B. The Fluke 125B can then calculate; frequency, phase angle, active power (kW), reactive power (VA or var), power factor (PF) or displacement power factor (DPF) and can also calculate the power values for a 3-phase system where all phases have equal voltage and currents.

Harmonics measurements

In the Harmonics function, the Test Tool measures harmonics to the 51st. Related data such as DC components, THD (Total Harmonic Distortion), and K factor are measured to provide a complete insight in to the electrical state of health of your loads.

One test lead to measure multiple electrical parameters

High frequency waveform, meter, capacitance and resistance measurements as well as continuity checks are all covered by single set of shielded test leads. No time is wasted finding or swapping



Fluke 120B Application



Contact your local distributor for price and availability. www.fluke.com/au/wtb



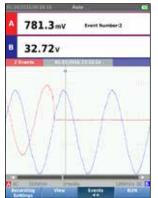
- Shielded test leads for oscilloscope, resistance and continuity measurements
- Resistance, continuity, diode and capacitance meter measurements
- Power measurements (W, VA, VAR, PF, DPF, Hz)
- · Voltage, current and power harmonics
- Check Industrial networks with BusHealth physical layer tests against defined reference levels
- · Save or recall data and instrument setups
- Store instrument setups defined by a test sequence for routine maintenance or most often used test procedures.
- External optically isolated USB interface to transfer, archive and analyse scope or meter data
- Optional WiFi adapter connected to internal USB port to wirelessly transfer information to the PC, laptop or Fluke Connect® mobile app
- FlukeView® ScopeMeter® Software for Windows®
- Rugged design to withstand 3g Vibration, 30g shock, and rated IP51 according to EN/IEC60529
- Highest safety rating in the industry: safety rated for CAT IV 600 V
- Li-Ion rechargeable battery, seven-hours operation (with four-hour charge time)

Specifications

	123B	124B	125B
Full function dual input scope and meter	•	•	•
Oscilloscope bandwidth MHz	20	40	40
Meter and Scope Recorder	•	•	•
Scope cursor measurements	-	•	•
Power and harmonics measurements	-	-	•
Bus health	-	-	•

10:1 Voltage Probe	-	•	•
i400S AC Current Clamp	-	-	•

Sample Screens



Quickly step through recorded events to identify and troubleshoot intermittent faults.



Quickly understand industrial field bus signal physical layer analogue characteristics.



A single test tool measures volts, ohms, amps or capacitance, in addition to displaying waveforms.

Included Accessories

Fluke 120B: Li-Ion Battery Pack, Charger/Power Adapter, 2 Shielded Test Leads with Ground Leads, Black Test Lead, Red and Blue Hook Clips, Banana to BNC Adapter, and WiFi USB adapter.

Fluke 120B/S versions also include Soft Carry Case, FlukeView™ for Windows® Software, Magnetic Hanger and Screen Protector.

FLIKE-125R/AII/S Industrial 40MHz

Ordering Information

TLURE-123B/AU/S	ScopeMeter Kit
FLUKE-125B/AU	Industrial 40MHz ScopeMeter
FLUKE-124B/AU/S	Industrial 40MHz ScopeMeter Kit
FLUKE-124B/AU	Industrial 40MHz ScopeMeter
FLUKE-123B/AU/S	Industrial 20MHz ScopeMeter Kit
FLUKE-123B/AU	Industrial 20MHz ScopeMeter

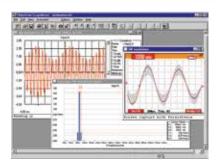
Fluke ScopeMeter® Portable Oscilloscopes



FlukeView® ScopeMeter® Software for documenting, archiving and analysis of waveforms

Get more out of your ScopeMeter with FlukeView $^{\!\scriptscriptstyle{(\!6\!)}}$ ScopeMeter $^{\!\scriptscriptstyle{(\!6\!)}}$ SW90W software for Windows $^{\!\scriptscriptstyle{(\!6\!)}}$

- Documentation of waveforms, screens and data by storing them to your PC for printing or importing data into a report
- Add text to ScopeMeter settings to give operators guidance when recalling settings
- Archive to create a library of waveforms for easy reference, waveform comparison, or pass/fail testing
- Analyse the waveform by using cursors
- Export data to another analysis program
- · Zoom-in functionality to see more details of the waveform
- FlukeView® offers remote control of the ScopeMeter
- On-line recording of your current waveform
- · Take a snapshot of the actual waveform and archive it as a BMP
- Convert the waveform into an FFT read-out to see the presence of harmonics



Specifications									
	190-504	190-502	190-204	190-202	190-104	190-102	190-062	125B 124B	123B
Bandwidth	50	O MHz	200	O MHz	100	MHz	60 MHz	40 MHz	20 MHz
Max. real time sample rate	5	GS/s	2.5	GS/s	1.25	GS/s	625 MS/s	40 MS/s + equiv samplin	
Input sensitivity		2mV/	div to 100V/o	div, plus variab	le attenuatio	on		5 mV to 200	V/div.
Max. time base speed	1 1	ns/div.	2 n	ıs/div.	4 ns	/div.	10 ns/div.	10 ns to 500 V/div.	20 ns to 500/div.
Number of Channels	4	2	4	2	4	2	2	2	
External trigger	No	Yes	No	Yes	No	Yes	Yes	No	
Independently floating isolated inputs (CAT Rating)			1000 V C	CAT III, 600 V C	AT IV			-	
Max.record length: in Scope Mode			10000 s	amples per cha	nnel			512 min/max sa channe	
in Scoperecord Mode			30000 min/	max pairs per	channel				
Glitch capture		8	ns peak dete	ect at full timeb	ase range			25 ns	
True RMS multimeter built-in		5000 counts		5000 counts		5000	counts	Dual 5000 c	counts
Dedicated test capabilities			V/Hz ra	atio, mAs, Wh, 1	FFT			Harmonics, Reco Detect	
General Specifications									
Mains adapter/battery charger included (type number)	:	BC19 BC190/820 Uni	00 Line Volta versal Switch	ge Adapter / Ba h Mode Power	attery Charge supply / Bat	er tery Chargei	ſ	BC430 Line \ Adapter / Batter	
Battery included	BP291	BP290	BP291	BP290	BP291	BP290	BP290	BP290)
Size (mm)			26	55 x 190 x 70				259 x 132	x 55
Weight (kg)	2.2	2.1	2.2	2.1	2.2	2	.1	1.4	
Safety certified			1000V C	ATIII / 600V C	AT IV			750V CAT III / 60	OOV CAT IV



PROCESS
CALIBRATION TOOLS

Process Tools Selection Guide

Pick the right process tool for you

Poccessing Process Calibators Process Calibators Voltage DC 300V Resistance 10k0 Current DC 110 mA Current AC 110 mA Frequency 50 kHz Pressure 61 Temperature: RTD types 8		s Cal	Temper 724	Temperature Calibrators	rators	718 /	Pres	Pressure Calibrators	rators				Loop Cal	Loop Calibrators		772 /	Process- Meters
(true RMS) re re: RTD types			724	7148		718/	717		7.19Pro					709 /		772 /	1 8006
(frue RMS) re: RTD types					712B	718Ex				721	715	705	707 / 707Ex	709H	171	773	789°/
re: (true RMS)			30 V	75 mV					30 V	30 V	10 V	28 V	28 V	30 V		-/30V	1000 V
re RTD types		\vdash															1000 V
re re: KTD types		H	3200 D		4000 n												40 MΩ
re RTD types		74 IIIA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	100 mA	100 mA	30 mA, 1 A
re re: RTD types																	•
twe twe RTD types		15 kHz															20 kHz
		=				-0.85 bar to 20 bar (4 ranges) / up to 700 bar²	-0.85 bar to 700 bar (10 ranges)	-0.85 bar to 7 bar (2 ranges) / ra up to 700 to	-0,8 to ii 20 bar (3 ranges)/ up ii to 700 bar²	input 1: -0,97 bar to 2,48 bar input 2: -0,83 bar to 345 bar³							
									-50 to 150°C	-50 to 150°C¹							
		∞	7		13												
TC types 13		12	12	17													
Source/Simulate																	
Voltage DC 15 V	10 V	20 V	10 V	75 mV							10 V					-/ 10 V	
Resistance 10 kn	3200 D	4000 ប	3200 D		4000 n												
mA DC/% scale 22 mA	24 mA	. 24 mA						•	•		24 mA	24 mA	24 mA	•		24 mA	24 mA
mA source; auto step,	•	•									•	•	•	•		•	•
Frequency 50 kHz	2 10 kHz	: 15 kHz															
Temperature: RTD types	7	8	7		13												
Temperature: TC types 13	10	10	10	17													
Record																	
Min/Max						•	•	•	•	•							•
Hold						•	•	•							•	•	•
As Found/ As Left results																	
Log data														●/-			
Upload data to PC														-∕-			-/•
Remote operation	-/•	•															
Features																	
Loop supply 26V	24 V/12 V	V 24 V	24 V			24 V/-	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V		24 V	24 V/-
Hart communication														•/-			
Integrated hand pressure pump						•											
Electric Pump								•	•	•							
Intrinsically safe (ATEX)	725Ex					718 Ex							707 Ex				
MIST traceable certification	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Warranty in years	8	ĸ	m	က	m	е	е	ю	ю	m	m	m	က	3	ო	က	8

Plake 750 pressure modulies required
Ranges for the internal sensor
Ranges depending on version
Y by using optional 720 RTD probe accessory
Films 789 now Plake Connect* compatible with Pluke ir3000 FC Connector
Ranges for use of Fluke 700 pressure modulies, see page 132.

Maintenance Manager

Focus: Maintaining plant uptime and maintenance efficiency.

What issues do you face?

- Ensuring continuous uptime
- Maintaining good ROI for equipment
- Compliance
- Process improvement
- Increase efficiency

Fluke solutions:

- Temperature
- 1 Pressure
- Standards
- Process tools

Quality Manager

Focus: Maintaining and documenting product quality

What issues do you face?

- Complying with quality regulations
- Maintaining documentation of processes

Fluke solutions:

- Temperature
- Pressure
- Standards
- Process tools
- Software

Field Calibration Technician

Focus: Calibrating and verifying measurement devices

What issues do you face?

- · Making accurate measurements
- Documenting procedures
- · Increasing throughput

Fluke solutions:

- Temperature
- 1 Pressure
- Standards
- Process tools
- Software
- Field Metrology Wells

Focus: Maintaining and verifying

What issues do you face?

- · Monitor and maintain sensors and transmissions
- · Accurate measurements

Fluke solutions:

- Temperature
- Pressure
- Standards
- Software
- Field Metrology Wells

Instrumentation Technician

instrumentation throughout the plant

- Process tools

* Diagram is not intended to be an exact





Temperature Readouts Precision Pressure Gauge Process Calibrators Software Solutions Multimeter and Probes 8846A 700G 1524 PROBES 725 754 789 FC 7526A DPC/TRACK 2

Fluke 771, 772 and 773 mA Process Clamp Meters



Fluke 771



Don't break the loop on 4-20 mA signal measurements and save time with the Fluke 771, 772 and 773 milliamp Process Clamp Meters.

Use the Fluke 772 and 773 to:

- Source 4-20 mA signals for testing control system I/O or I/Ps
- Simulate 4-20 mA signals for testing control system I/O
- Measure 4-20 mA signals with in-circuit measurement
- Power a transmitter with the 24 V loop power supply
- Automatically ramp and step change the 4-20 mA output for remote testing

Use the Fluke 773 to:

- Measure DC voltage to verify 24 V power supplies or voltage I/O signals
- Source DC voltage to test voltage input devices
- Scaled mA output signal enables a logging DMM (289) to record 4-20 mA signal without breaking the loop
- mA in/out: simultaneously source a mA signal while measuring a mA signal with the clamp

Recommended Accessories





TL220 SureGrip™ Industrial Test Lead Set See page 139

C550 Tool Bag See page 144

Fluke 771, 772 and 773 mA Process Clamp Meters pay for themselves

- The more you use them the more money you save
- Measuring 4-20 mA signals (five) times without operator intervention can pay for the 771
- Saving a trip back to shop to get a loop calibrator can pay for the price difference of the 772
- Saving a trip back to the shop for a voltage test source can pay for the price difference of the 773



Features

	mA measure w/jaw	mA measure In circuit	mA source	mA sim	Loop power 24 V	source		Scaled mA output to mA input	mA in/ out
771	•	_	_	_	_	_	_	_	_
772	•	•	•	•	•	_	_	_	_
773	•	•	•	•	•	•	•	•	•

Specifications

	Function	Resolution and range	Accuracy	Notes
771, 772, 773	mA measurement	0 to 20.99 mA	0.2 % + 5 counts	Measured by clamp
111, 112, 113		21.0 mA to 100.0 mA	1 % + 5 counts	_
772 and 773	mA measurement	0 to 24.00 mA	0.2 % + 2 counts	Measured in series with test jacks
772 and 773	mA source	0 to 24.00 mA	0.2 % + 2 counts	Maximum mA drive: 24 mA into 1,000 ohms
772 and 773	mA simulate	0 to 24.00 mA	0.2 % + 2 counts	Maximum voltage 50 V DC
773	Voltage source	0 to 10.00 V DC	0.2 % + 2 counts	2 mA maximum drive current
773	Voltage measure	0 to 30.00 V DC	0.2 % + 2 counts	_

	771	772 773	
Battery	Two 1.5 V, Alkaline, IEC LR6	Four 1.5 V, Alkaline, IEC LR6	
Working hours	40 hours typical	12 hours @ 12 mA source into 500 ohms	
Size (HxWxL)	59 mm x 38 mm x 212 mm	43.7 mm x 70 mm x 246.2 mm	
Weight	260g	410g	
Operating temperature	-10 °C to 50 °C		
IP rating	IP 40		
Warranty Three-year, one-year		ar on mA clamp assembly and cable	

Included Accessories

Fluke 771: Soft Carrying Case, User Manual.

Fluke 772/773: Four AA Alkaline Batteries (installed), Soft Carrying Case, TL75 Test Leads, AC 72 Detachable Clip, TL940 Mini-hook Test Leads, Instruction Sheet, Hanging Tool with Hook and Loop Strap.

Ordering Information

FLUKE-771 Milliamp Process
Clamp Meter

FLUKE-772 Milliamp Process
Clamp Meter

FLUKE-773 Milliamp Process
Clamp Meter

Fluke 787 and 789 FC **ProcessMeter™**





The Fluke 787 and 789 ProcessMeters combine a Digital Multimeter and a Loop Calibrator in one rugged handheld tool, giving process technicians double the power.

Fluke 789 ProcessMeter Now compatible with Fluke Connect® App

The Fluke 789 ProcessMeter is the ultimate troubleshooting tool for electricians and instrumentation professionals, combining the functionality of a loop calibrator with the power of a digital multimeter. By equipping the 789 with a temperature measurement module and the wireless data logging capabilities of Fluke Connect® with ShareLive™ video call (sold separately), process technicians can now do a lot more while carrying a lot less. Also with its built-in, selectable 250 ohm HART® resistor, it eliminates the need to carry a separate resistor with you.

- 24 V loop power supply
- CAT IV 600V rating
- Double-sized, dual display
- 20 mA drive into 1200 ohms
- 0 % to 100 % mA Span Check buttons to toggle between 4-20 mA
- Infrared I/O serial port compatible with FlukeView[®] Forms Software









- Simultaneous mA and % of scale readout on mA output
- $25\ \%$ Manual Step plus Auto Step and Auto Ramp on mA output Min/Max/Avg/Hold/Relative modes
- · Externally accessible battery for easy changes

Specifications

	787	789
Voltage measurements		
Range	0-1000 V AC or DC	0-1000 V AC (true-RMS) or DC
Resolution	0.1 mV to 1.0 V	0.1 mV to 1.0 V
Accuracy	0.1% Rdg+1 LSD (V DC)	0.1% Rdg+1 LSD (V DC)

Current Measurement				
Range	0-1 A	0-30 mA	0-1 A	0-30 mA
Resolution	1 mA	0.001 mA	1 mA	0.001 mA
Accuracy	0.2%+2 LSD	0.05%+2 LSD	0.2%+2 LSD	0.05%+2 LSD

Current Sourcing		
Range	0-20 mA or 4-24 mA	0-20 mA or 4-24 mA
Accuracy	0.05% of span	0.05% of span

Other Specifications		
Max drive capability	500 Ω	1200 Ω
Loop power	N/A	24 V
Resistance measurement	To 40 MΩ, 0.2%+1 LSD	To 40 MΩ, 0.2%+1 LSD
Frequency	To 19.999 kHz, 0.005%+1 LSD	To 19.999 kHz, 0.005%+1 LSD
Continuity	Beeps for resistance < 100 Ω	Beeps for resistance < 100 Ω
Span Check	No	Yes

General Specifications		
Temperature range	18 °C to 28 °C, for one year after calibration	
Maximum voltage applied between any jack and earth ground	1000 V RMS	
Storage temperature	-40 °C to 60 °C	
Operating temperature	-20 °C to 55 °C	
Relative humidity	95 % up to 30 °C; 75 % up to 40 °C; 45 % up to 50 °C; 35 % up to 55 °C	
Size (HxWxL) and Weight	Fluke 787: 32 mm x 87 mm x 187 mm, 369 grams Fluke 789: 50 mm x 100 mm x 203 mm, 600 grams	
Safety	Designed in accordance with EN61010, ANSI/ISA S82.01-1994 and CAN/CSA C22.2 No. 61010.1-92 Over-voltage CAT III	
Warranty	3 years	
Continuity	Beeps for resistance < approx. 100 ohms	

Recommended Accessories





IR3000 FC Fluke Connect® ir3000 Connector (Fluke 789 only) See page 145

SureGrip™ Industrial Test Lead Set See page 139





80T-150UA Universal Temperature Probe See page 143

80PK-8 Pipe Clamp Temperature Probe See page 143

Recommended Kits

Buy more, Save more



Fluke Connect® 789 ProcessMeter™ and Temperature Kit

For more details see page 136

Included Accessories

Fluke 787: AC70A Alligator Clips, C81Y Protective Yellow Holster with Flex-Stand™, One 9V Alkaline Battery, TL75 Safety-Designed Test Lead Set, Quick Reference Guide.

Fluke 789: TL71 Test Lead Set plus AC175 Alligator Clips, 4 AA 1.5V Alkaline Batteries, User Manual and Quick Reference Guide.

Ordering Information

ProcessMeter[™] FLUKE-787 FLUKE-789 ProcessMeter[™] FLUKE-789/ Fluke Connect T3000FC 789 ProcessMeter™ & Temperature Kit FLUKE-IR3000 Fluke Connect **Infrared Connector**

> FlukeView Forms Software (incl. Interface Cable)

Contact your local distributor for price and availability. www.fluke.com/au/wtb

FVF-SC2

Fluke 715, 707, 707Ex and 705 Loop Calibrators

Complete family of Volt/mA calibrators







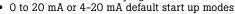


Fluke 715 Volt/mA Calibrator

- Source voltage to 200 mV or 20 V
- Measure loop current (0 to 20 mA, 4-20 mA) signals with 0.01 % accuracy and 1 µA resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 4-20 mA loop current
- 24 V loop supply with simultaneous current measurement
- Ramp and Step Ramp output functions

Fluke 707 and 705

- Innovative output adjustment dial on 707 provides 1 μA and 100 μA resolution and one-hand operation
- Large display and simple interface for ease of use
- Simultaneous mA and % readout for quick, easy interpretation of readings
- mA accuracy of 0.015 % on the Fluke 707 and 0.02 % on the 705
- HART™ mode on 707 connects 250 ohm resistor in series with 24 V loop for compatibility with HART communicators
- Push button 25 % steps for fast, easy linearity checks
- "Span Check" for fast confirmation of zero and span
- Selectable slow and fast linear step ramp provide ramping outputs for valve slewing, remote testing and loop functional tests
- 24 V internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM





Fluke 707

Specifications

	105/101	115	
Voltage measurement			
Range	0 V to 28 V	0 mV to 200 mV / 0 V to 25 V	
Resolution	1 mV	10 μV / 1 mV	
Accuracy	705: 0.025 % Rdg + 1 LSD 707, 707Ex: 0.015 % Rdg + 2 LSD	0.01 % Rdg + 2 LSD	
Current measurement			
Range	0 mA to 24 mA	0 mA to 24 mA	
Resolution	0.001 mA	0.001 mA	
Accuracy	705: 0.02 % Rdg + 2 LSD 707, 707Ex: 0.015 % Rdg + 2 LSD	0.01 % + 2 LSD	
Current sourcing			
Range	0 mA to 20 mA or 4 mA to 20 mA	0 mA to 20 mA or 4 mA to 20 mA	
Accuracy	705: 0.025 % Rdg + 2 LSD 707, 707Ex: 0.015 % Rdg + 2 LSD	0.01 % Rdg + 2 LSD	
Drive capability	705: 1000 Ω @ 24 mA 707: 1200 Ω @ 24 mA 707Ex: 700 Ω @ 20 mA	1000 Ω @ 24 mA	
Loop power while measuring mA	24 V		
Voltage sourcing		0 mV to 200 mV or 0 V to 20 V	
Display current and % of span	Yes	mA or %	
Auto step, auto ramp	Yes		
Span Check	Yes		
Battery life	18 hours typical, at 12 mA		
Warranty	Three-year		

Specialty Models

Fluke 707Ex **Intrinsically Safe Loop Calibrator**

The fast one-handed tool for mA loop checks in Ex zones.

The 707Ex is an intrinsically safe loop calibrator for use in explosion endangered areas. The Fluke 707Ex is certified in accordance with the ATEX directive (Ex II 2 G Ex ia IIC T4) in Zones 1 and 2.

- Simultaneous mA and % readout for quick, easy, interpretation of readings.
- mA accuracy of 0.015%, superior to other loop calibrators

See page 132 for more information.

Recommended Accessories



Heavy Duty Test Lead Set See page 146



SureGrip™ Industrial Test Lead Set See page 139



Tool Bag See page 144



PV350 Pressure Vacuum Module See page 146

Included Accessories

Fluke 705/707: C10 Yellow Holster, Test Leads, AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet.

Fluke 707Ex: Red Ex-holster, Test Leads, AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet.

Fluke 715: Yellow Holster (H80M excl. TPAK), Test Leads and AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet.

Ordering Information

FLUKE-705 Loop Calibrator FLUKE-707 Loop Calibrator Intrinsically Safe FLUKE-707EX Loop Calibrator Volt/mA Calibrator FLUKE-715

Fluke 709 and 709H Precision Loop Calibrators



Fluke 709H





HART is a registered trade mark of the HART Communications Foundation.

The Fluke 709 and 709H mA loop calibrators are designed to save time and produce high-quality results. These calibrators are built around a user friendly interface with a Quick-Set rotary encoder knob. This tool reduces the time it takes to measure, or source, current and power up a loop. The protective holster easily fits into a technician's hand and the large backlit display is easy to read, even in dark, cramped worked areas.

- · Best-in-class accuracy at 0.01 % reading
- HART Communication (709H only) communicate with and test HART smart instruments
- Compact rugged design
- Intuitive user interface with quick-set knob for fast setup, easy to use
- 24 V DC loop power with mA measure mode
- Resolution of 1 μA on mA ranges
- Built in selectable 250 Ω resistor for HART communications
- Simple two wire connection for all measurements
- Valve test (source
- and simulate defined mA values with % keys)
- Upload logged mA measurements and HART device data using the 709H with optional 709H/TRACK software

HART Communication

The Fluke 709H offers a built-in HART modem for communication capability to perform the following commands:

- · Read message, tag, descriptor and calibration date
- Read sensor PV information and PV output information
- · Read long tag
- Write PV ranges (upper and lower)
- Enter/exit fixed current mode and set zero offset
- Trim DAC zero (mA output 4 mA) and trim DAC gain (mA output 20 mA)

The Fluke 709H also offers the ability to store up to twenty HART device configuration files for uploading via 709H/TRACK software, via the 709H/TRACK software. Configurations can be stored as .csv or .txt files. This allows the end user to document plant HART easily and it gives them direct access to key device parameters, allowing better troubleshooting, calibrating and maintaining of plant assets.

Specifications

mA source, mA simulate, mA read, mA read/loop power and volts read
mA (O to 24 mA) and Volts (O to 30 V DC)
luA on mA ranges and 1mV on voltage range
0.01% +/- 2 counts all ranges (@23°C +/- 5°C)
-10 °C to 55 °C
10 to 95% non-condensing
20ppm of F.S. /°C from -10°C to 18°C and 28°C to 55°C
128 x 64 pixels, LCD Graphic w/backlight, .34" high digits
24 V DC @ 20 mA
240 V AC
28 mA DC
EN61326 Annex A (Portable Instruments)
6 AAA alkaline
150 x 90 x 30 mm
≥ 40 hours continuous use (measure mode using alkaline)
0.3 kg
Three years



Included Accessories

Fluke 709: AC175 Alligator Clip Set, TL75 4201 Test Leads, Soft Case, 6 AAA Batteries (installed), Product Manual CD-ROM, Quick Reference Guide, Safety Information.

Fluke 709H: 754-8016 Alligator Clip Set, 75X-8014 Stackable Lead Set, TP220-4201 Test Probes, AC280-5001 SureGrip Hook Clips, Soft Case, 6 AAA Batteries (installed), Product Manual CD, Quick Reference Guide, Safety Information.

Ordering Information

FLUKE-709

Precision Loop

Calibrator

FLUKE-709H

Precision Loop Calibrator with

HART

FLUKE-709H/ TRACK HART Data-Logging Communications Software

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Fluke 750 Series Documenting Process Calibrators

Calibrate/troubleshoot process control instrumentation



Fluke 754











Whether you're calibrating instruments, troubleshooting a problem or running routine maintenance, Fluke's 750 Series Process Calibrators can help you get the job done faster. They do so many different tasks, so quickly and so well and they are the only process calibrators you need

- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors, transmitters etc
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Power transmitters during test using loop supply with simultaneous mA measurement
- Measure/source pressure using any of Fluke's 48 Pressure Modules
- Measure and source simultaneously with one compact, rugged, reliable tool
- Create and run automated as-found/as-left procedures to satisfy quality programs or regulations and record and document results.
- Advanced features like autostep, custom units, user entered values during test, one-point and twopoint switch testing, square root DP flow testing, programmable measurement delay and more
- Control the temperature of selected Hart Scientific Dry Blocks
- Handle fast pulsed RTD transmitters and PLCs in RTD source mode with 1 ms response time
- Three-year warranty

Fluke 753: A complete Documenting Calibrator

The 753 is a complete multifunction documenting calibrator and includes a PC interface that lets you load procedures, lists and instructions created with software-or unload data for printing, archiving, and analysis. The 753 can hold a full week of calibrations and procedures.

Fluke 754: Get HART-ability™

The Fluke 754 offers all of the capabilities of the 753, plus the ability to calibrate, maintain and troubleshoot HART instrumentation. Integrated HART communication functions permit you to monitor, control and calibrate HART instrumentation. It handles fast pulsed instruments such as RTD transmitters and PLCs responding to pulses within 1 ms.

Instrumentation Management Software

The Fluke 753 and 754 are compatible with Fluke 750SW DPC/TRACK2 software and with software from Cornerstone, Emerson, Honeywell, On Time Support, Prime Technologies, Yokogowa, Intools, Meridium and Beamex.

For more information, visit www.fluke.com.au

Specifications

Functions	Measure Sourcing	
DC voltage	0.020 % reading + 0.005 % full scale	0.01 % output + 0.005 % full scale
DC current	0.01 % reading + 5 μA	0.01 % output + 0.003 mA
Resistance	$0.05 \% \text{ reading} + 50 \text{ m}\Omega$ $0.01 \% \text{ output} + 240 \text{ m}\Omega$	
Frequency	to 50 KHz, ± 0.5 Hz to 1100 Hz O to 50 KHz, ± 0.1 Hz to 1099.9 Hz	
Thermocouples	0.3 °C 0.2 °C	
RTDs	0.3 °C 0.1 °C	
Pressure	To 0.025 % of full scale, per pressure module specifications	

General Specifications		
Battery life	Typically over eight hours	
Internal battery pack	Li ion 4400 mAh	
Battery replacement	Via twist lock fastener without opening calibrator; no tools required	
Weight	1.2 kg	
Size (HxWxD)	245 mm x 136 mm x 63 mm	
RTDs	0.3 °C	
Pressure	To 0.025 % of full scale, per pressure module specifications	

Recommended Accessories





750PXX See page 119





Test Pump See page 146

C799 Field Soft Ca See page 144

Bundle Package



Fluke 754/750SW 754DPC and 750SW DPCTRACK2 **Bundle Package**

Purchase the Fluke 754 with the Fluke DPC/TRACK2[™] software at a special bundle package price.

For more information, go to www.fluke.com/au/754

Included Accessories

Stackable Test Leads (3 sets), TP220 Test Probes (3 sets) with extended Tooth Alligator Clips (3 sets), AC280 Hook Clips (2 sets), BP7240 Li-ion Battery Pack, BC7240 Battery Charger, C799 Field Soft Case, USB Communication Cable, Getting Started Guide, Instruction Manual on CDROM, NIST Traceable Certificate of Calibration, DPCTrack™ 2 Sample Software that enables upload and printing of calibration records. HART Communication Cable (754 only).

Ordering Information

FLUKE-753

Documenting Process

Calibrator

FLUKE-754

Documenting Process Calibrator HART

FLUKE-754 /750SW

754DPC and 750SW DPCTRACK2 Bundle

Package

FLUKE-750SW

DPC/TRACK2 Software

Contact your local distributor for price and availability.

Fluke 725/Ex and 726 Multifunction **Process Calibrators**



Fluke 725







More calibration power!

- · Two separate channels; measure, source and view process signals simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters
- Measure or source pressure using any of 29 Fluke 750Pxx Pressure Modules
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- Perform fast linearity tests with auto step and auto ramp
- Power transmitters during test using 24 V loop supply and simultaneous mA measurement
- Store frequently-used test setups for later use
- Three year warranty

726 Additional features:

- More precise measurement and calibration source performance, accuracies of 0.01%
- Transmitter error% calculation
- Memory storage for up to 8 calibration results
- Frequency totaliser and frequency pulse train source mode
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- Integrated pressure switch test
- Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement

Specifications

Function or Source	Range or Type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 725: 0 to 10V (source) 0 to 20V (source) 725/726: 0 to 30V (measure)	0.01 mV 0.001 V 0.001 V 0.001 V	0.01% 0.02% Rdg + 2 LSD	Max load, 1 mA
mA	0 to 24	0.001 mA	0.01%; 0.02% Rdg +2 LSD	Max load, 725/726: 1000Ω 725Ex: 250Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	0.01 mV	0.01% 0.025% of range + 1 LSD	
Ohms	15Ω to 3200Ω 5Ω to 4000 Ω	0.01Ω to 0.1Ω	0.10Ω to 1.0Ω 0.015%	
Hz - CPM	2.0 to 1000 CPM 1 to 1000 Hz 1.0 to 10.0 kHz 10.0 to 15.0 kHz	0.1 CPM 1 Hz 0.1 kHz 0.1 kHz	±0.05% ±0.05% ±0.25% ±0.05%	Source; 5V p-p 1V - 20 V p-p squarewave, -0.1 V offset
Loop Supply	725/726: 24 V DC 725Ex: 12 V DC	N/A	10%	
T/C	J, K, T, E, L, N, U, XK	0.1 °C, 0.1 °F	to 0.7 °C to 0.2 °C	
T/C	B, R, S, BP	1 °C, 1 °F	to 1.7 °C to 1.2 °C	
RTDs	Cu (10) , Ni 120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926)	0.01 °C 0.01 °F 0.1 °C, 0.1 °F	to 0.15 °C	

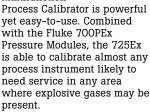
Simultaneous function capability	Channel A	Channel B
24.000 mA DC	M	M or S
24.000 mA DC with 24 V loop supply	M	_
100.00 mV DC	_	M or S
30.000 V DC measure	M	_
20.000 V DC measure; 10.000 V DC source; 20.000 V DC source	_	M or S
15 to 3200 Ohms (725); 5 to 4000 Ohms (726)	_	M or S
Thermocouple J, K, T, E, R, S, B, M, L, U, N, XK, BP	_	M or S
RTD Cu 10 , Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), XK and BP	_	M or S
Pressure (requires Fluke 750PXX Modules)	M	M used as S
Frequency; 10 kHz; (15 KHz)	_	M or S

M = Measure, S = Source/Simulate Unique 726 features are in bold

Specialty Model

Fluke 725Ex **Intrinsically** Safe Multifunction Process **Calibrator**

The Fluke 725Ex Intrinsically Safe Multifunction



• ATEX safety rating II IG Ex ia IIB 171°C

See page 132 for more information.

Recommended Accessories





TL220-1 SureGrip™ Industrial Test Lead Set See page 139

See page 144





80PK-27 Industrial Surface Temperature Probe See page 143

750PXX Pressure Module See page 119

Included Accessories

Test Leads, AC175 Test Clips. Stackable Test Leads (1 pair), User Manuals on CD (725Ex also includes CCD Control Drawing, Statement of Quality Assurance Practices, NIST Traceable Calibration Certificate)

Ordering Information

FLUKE-725 Multifunction **Process Calibrator**

FLUKE-725EX **Intrinsically Safe**

Multifunction **Process Calibrator**

FLUKE-726 Precision Multifunction **Process Calibrator**

Contact your local distributor for price and availability.

www.fluke.com/au/wtb

Fluke 712B, 714B and 724 **Temperature Calibrators**



Fluke 712B







Accuracy and simplicity

The Fluke 712B and 714B are designed for both simplicity, ease of use and high accuracy. They are a powerful combination of temperature and loop calibration.

Fluke 714B Thermocouple Calibrator

- Measure and simulate 17 different thermocouple types and millivolts
- Measure 4-20mA signals while simultaneously sourcing a temperature signal
- Hanging tool designed in and included with every unit
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- Power down settings remembered at power up for easy restart of tests
- 1 and 2 year specifications and traceable certificate of calibration

Fluke 712B RTD Calibrator

- Measure and simulate 13 different RTD types and resistance
- Measure 4-20mA signals while simultaneously sourcing a temperature signal
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- 1-year and 2-year specifications and traceable certificate of calibration

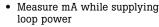
Specifications

-10 °C to 50 °C 2,000 metres condensing 90 % (10 °C to 30 °C), 75 % 45 % (40 °C to 50 °C) (Without cond MIL-T-28800E, Class 2 1 metre IEC 60529: IP52 IEC 61010-1, Max 30 V to earth, Polluti 4 AA NEDA 1.5A IEC LR6 batte	lensation) ion Degree 2
condensing 90 % (10 °C to 30 °C), 75 % 45 % (40 °C to 50 °C) (Without cond MIL-T-28800E, Class 2 1 metre IEC 60529: IP52 IEC 61010-1, Max 30 V to earth, Polluti 4 AA NEDA 1.5A IEC LR6 batte 0-24 mA	lensation) ion Degree 2
45 % (40 °C to 50 °C) (Without cond MIL-T-28800E, Class 2 1 metre IEC 60529: IP52 IEC 61010-1, Max 30 V to earth, Polluti 4 AA NEDA 1.5A IEC LR6 batte	lensation) ion Degree 2
1 metre IEC 60529: IP52 IEC 61010-1, Max 30 V to earth, Polluti 4 AA NEDA 1.5A IEC LR6 batte	
IEC 60529: IP52 IEC 61010-1, Max 30 V to earth, Polluti 4 AA NEDA 1.5A IEC LR6 batte	
IEC 61010-1, Max 30 V to earth, Polluti 4 AA NEDA 1.5A IEC LR6 batte 0-24 mA	
4 AA NEDA 1.5A IEC LR6 batte 0-24 mA	
0-24 mA	ries
·	
·	
2001	
0.001 mA	
0.010 % + 2 µĀ	
0.00 Ω to 400.00 Ω , 400.0 Ω to 4000.0 Ω	
015 % + 0.05 Ω, 0.015 % + 0.5 Ω	
400.0 Ω, 1.00 Ω to 400.00 Ω, 400.0 Ω to 500.0 Ω, 1500.0 Ω to 4000.0 Ω	
+ $0.1~\Omega$, $0.015~\%$ + $0.05~\Omega$, $0.015~\%$ + $0.5~\Omega$, $0.015~\%$ + $0.5~\Omega$	
0.1 Ω	
	10 mV/to 7E
	-10 mV to 75 mV
	0.01 mV 0.015 % + 10 μA
	0.010 % + 2 μA 0.00 Ω to 400.00 Ω, 400.0 Ω to 4000.0 Ω 15 % + 0.05 Ω, 0.015 % + 0.5 Ω 100.0 Ω, 1.00 Ω to 400.00 Ω, 400.0 Ω to 500.0 Ω, 1500.0 Ω to 4000.0 Ω + 0.1 Ω, 0.015 % + 0.05 Ω, 0.015 % +

Specialty Model

Fluke 724 **Temperature** Calibrator

- · Easy to read dual display allows for input and output simultaneous view
- Source/measure TCs, RTDs, volts and ohms



25 % and 100 % stepping, auto-step and auto ramp

Recommended Accessories







12345

eGrip Alligator Clips See page 140



TL175 (712/724) Test Leads See page 140



TL220 (712/724) Test Lead Set See page 139













Large Soft Case See page 144

Included Accessories

Fluke 714B/712B: Magnetic Hanging Tool, Batteries, Manual, Traceable Calibration Certificate, and Test Leads.

Fluke 724: Test Leads, AC175 Test Clips, Stackable Test Leads (1 pair).

Ordering Information

FLUKE-714B Thermocouple Temperature Calibrator

FLUKE-712B **RTD Calibrator**

FLUKE-724 Temperature Calibrator

Contact your local distributor for price and availability. www.fluke.com/au/wtb

For more information, go to au.fluke.com/PCT

FLUKE ®

Fluke Calibration 9142, 9143 and 9144 Field Metrology Wells





Fluke 9144

Field temperature calibration with precision and speed

Whether you need to calibrate 4–20 mA transmitters or a simple thermostatic switch, a Field Metrology Well is the right tool for the job. With three models covering the range of –25 °C to 660 °C, this family of Metrology Wells calibrates a wide range of sensor types. The optional process version (models 914X-X-P) provides a built-in two-channel thermometer readout that measures PRTs, RTDs, thermocouples, and 4–20 mA transmitters which includes the 24 V loop supply to power the transmitter.

- · Lightweight, portable, and fast
- Cool to -25 °C in 15 minutes and heat to 660 °C in 15 minutes
- Built-in two-channel readout for PRT, RTD, thermocouple, 4-20 mA current
- True reference thermometry with accuracy to ±0.01 °C
- Automate calibration with the Fluke 754 or Fluke 1586A or use on-board automation with process version
- 9142 -25 °C to 150 °C ± 0.2 °C Full Range
- 9143 33 °C to 350 °C ± 0.2 °C Full Range
- 9144 50 °C to 660 °C ± 0.35 °C to 420 °C ± 0.5 °C at 660 °C

Fluke Calibration 9103 and 9140 Field Dry-Well Calibrators



Fluke 9141

These two units beat every other comparable dry-well in the industry in performance, size, weight, convenience, ease of calibration, software, and price. In addition, the heating and cooling rate of each of these dry-wells is adjustable from the front panel, thermal switches can be checked for actuation testing, and multiple-hole inserts are available for a variety of probe sizes.

- · Lightweight and very portable
- Two models ranging from -25 °C to 350 °C
- Accuracy to ± 0.25 °C
- Stability to ± 0.02 °C
- RS-232 and Interface-it software included
- · Easy to recalibrate

		Well inserts	
Models		X in the mode	el number to be replaced with A, B, C,
		D, E, or F as a	ppropriate for the desired insert.
9142-X	Field Metrology Well, -25 °C to 150 °C	9142-INSA	Insert A, 9142, misc holes
9142-X-P	Field Metrology Well, -25 °C to 150 °C,	9142-INSB	Insert B, 9142, comp holes
9142-7-1	process version	9142-INSC	Insert C, 9142, 6 x 0.25 in holes
9143-X	Field Metrology Well, 33 °C to 350 °C	9143-INSA	Insert A, 9143, misc holes
9143-X-P	Field Metrology Well, 33 °C to 350 °C,	9143-INSB	Insert B, 9143, comp holes
9143-A-P	process version	9143-INSC	Insert C, 9143, 6 x 0.25 in holes
9144-X	Field Metrology Well, 50 °C to 660 °C	9144-INSA	Insert A, 9144, misc holes
9144-X-P	Field Metrology Well, 50 °C to 660 °C,	9144-INSB	Insert B, 9144, comp holes
9144-A-P	process version	9144-INSC	Insert C, 9144, 6 x 0.25 in holes

Models	Specify X, X = A, B, C, or D included insert		
9103-X Field Dry-Well Calibrator, -25 °C to 140 °C 9140-X Field Dry-Well Calibrator, 35 °C to 350 °C	Insert A:	1/16" (1.6 mm), 1/8" (3.2 mm), 3/16" (4.8 mm), 1/4" (6.35 mm), 3/8" (9.5 mm) & 1/2" (12.7 mm)	
	Insert B:	2 at 3/16" (4.8 mm), 2 at 1/4" (6.35 mm) & 2 at 3/8" (9.5 mm)	
	Insert C:	6 at 1/4" (6.35 mm)	
	Insert D:	2 at 3mm, 2 at 4 mm & 2 at 6 mm	

Recommended Accessories





9142-CASE Carrying Case (914X only)

9308 Carrying Case (9103/9140 only)



9936A LogWare III Temperature Data Logging Software

Complete Solution

Fluke 754 with 914X Series Field Metrology Well

By combining the automating and documenting capabilities of the Fluke 754 Documenting Process Calibrator (see page 108) with Fluke Calibration's intelligent and stable family of field drywells and micro-baths, you have the capability to test the entire loop.

This combination of equipment allows you to easily verify the characteristics of the temperature sensor and measurement electronics. Using this information, the entire loop can be adjusted to optimise system measurement performance.



Fluke Calibration 9100S and 9102S Handheld Dry-Well Temperature Calibrators



Fluke 9102S



Fluke 9100S



The Fluke Calibration 9100S and 9102S are the world's smallest, lightest and most portable dry-wells. With an easy-to-use interface and temperature range to 375 °C the 9100S is ideal for checking RTDs, thermocouple, and small bimetal thermometers in the field. For work in the temperature range of –10 °C to 122 °C the 9102S is ideal for dial gauges, digital thermometers, bulb switches, and other sensors that need calibration below ambient.

- Smallest dry-wells in the world
- Interchangeable and customisable inserts available
- Ranges from -10 °C to 375 °C
- Accuracy to ±0.25° C
- Stability of ±0.05 °C at 0 °C

Models		Optional	l accessories:
9102S	Handheld dry-well (-10 °C to 122 °C)	3102-0: 3102-1: 3102-2:	Insert, blank Insert, 1/16 in (1.6 mm) Insert, 1/8 in (3.2 mm)
Included inserts:		3102-3:	Insert, 3/16 in (4.8 mm)
1/4" (6.4 (4.8mm)	mm), 3/16	3102-4: 3102-5: 3102-6: 3102-7: 3102-8: 9308:	Insert, 1/4 in (6.4 mm) Insert, 5/16 in (7.9 mm) Insert, 3/8 in (9.5 mm) Insert, 7/16 in (11.1 mm) Insert, 5/32 in (4 mm) Rugged Carrying Case



Models	Specify 2	K, X = A, B, C, or D Fixed-Block Options
9100S-X Handheld dry-well (to 375 °C)	Block A:	1/4" (6.4 mm), 5/32" (4 mm)
		1/16" (1.6 mm), 1/8" (3.2 mm)
		2 at 3/16" (4.8 mm)
Optional accessories:	Block B:	3/16" (4.8 mm), 1/8" (3.2 mm)
Optional accessories:		3/8" (9.5 mm), 1/4" (6.4 mm)
9300: Rugged Carrying Case	Block C:	1/2" (12.7 mm), 3/16" (4.8 mm)
9300. Rugged Carrying Case	Block D:	2 at 3 mm, 2 at 4 mm, 2 at 6 mm

Fluke Calibration 1586A Super-DAQ Precision Temperature Scanner



Fluke 1586A

The 1586A Super DAQ automates calibration when connected to a Fluke Calibration temperature source. It is a powerful thermometer readout and the most accurate and flexible temperature data acquisition system on the market

- Measure thermocouples, PRTs, thermistors, DC voltage, DC current, and resistance
- $\bullet \ \ \text{Best-in-class temperature measurement accuracy}$
- Fluke DAQ 6.0 software incl. to visualise & handle data
- PRTs: ±0.005 °C
- Thermocouples: ±0.3 °C (Type K,T,J w/ internal CJC)
- Thermistors: ±0.002 °C

Models		Accessories:	
Super-DAQ and	d DAQ-STAQ Multiplexer	1586-2586:	High-Capacity Module
1586A/1DS	Super-DAQ, 1 DAQ-STAQ Multiplexer		without Relay Card
1586A/1DS/C	Super-DAQ, 1 DAQ-STAQ Multiplexer, Accredited Calibration	1586-2586-KIT:	Relay Card
1586A/2DS	Super-DAQ, 2 DAQ-STAQ Multiplexers	1586-2588:	DAQ-STAQ Multiplexer without Adapter Card
1586A/2DS/C	Super-DAQ, 2 DAQ-STAQ Multiplexers, Accredited Calibration	1586-2588-KIT:	
Super-DAQ and	d High-Capacity Module		Cable
1586A/1HC	Super-DAQ, 1 High-Capacity Module	1586-2588-CBL:	DAQ-STAQ Multiplexer
1586A/1HC/C	Super-DAQ, 1 High-Capacity Module, Accredited Calibration	Y1586S:	Interface Cable Rack Mount Kit, Single
1586A/2HC	Super-DAQ, 2 High-Capacity Modules	Y1586D:	(half rack) Rack Mount Kit. Dual
1586A/2HC/C	Super-DAQ, 2 High-Capacity Modules, Accredited Calibration	1586-CASE:	(full rack) Super-DAQ Carrying Case
Super-DAQ, Hi Multiplexer	gh-Capacity Module and DAQ-STAQ		(mainframe and internal modules)
1586A/DS-HC	Super-DAQ, 1 High-Capacity Module, 1 DAQ-STAQ Multiplexer	1586/DS-CASE:	Super-DAQ/DAQ-STAQ Carrying Case (main frame
1586A/ DSHC/C	Super-DAQ, 1 High-Capacity Module, 1 DAQ-STAQ Multiplexer, Accredited Calibration		and module)

Ordering Information

9100S-A-256	HDRC Handheld
	David Maria DI OCIZ I

Dry-Well, BLOCK A HIGH-TEMP

9100S-B-256 HDRC Handheld Dry-Well, BLOCK B,

Dry-Well, BLOCK HIGH-TEMP

9100S-C-256 HDRC Handheld

Dry-Well, BLOCK C, HIGH-TEMP

9100S-D-256 HDRC Handheld

Dry-Well, BLOCK D, HIGH-TEMP

9102S-256 HDRC Handheld

Dry-Well, LOW-TEMP

1586A Super-DAQ Precision

Temperature Scanner

1586A/1DS Super-DAQ Precision

Temperature Scanner, 1 DAQ-STAQ Multiplexer

1586A/2DS Super-DAQ Precision

Temperature Scanner,

2 DAQ-STAQ Multiplexers

1586A/DS-HC Super-DAQ Precision

Temperature Scanner, 1 High-Capacity Module,

1 DAQ-STAQ Multiplexer

1586A/1HC Super-DAQ Precision

Temperature Scanner,

1 High-Capacity Module
1586A/2HC Super-DAQ Precision

Super-DAQ Precision
Temperature Scanner,

2 High-Capacity Modules

Optional: Accredited Calibration available (add "/C" to the above model numbers).

FLUKE ®

Calibration

Fluke Calibration 1523 and 1524 Reference Thermometers



The 1523/1524 Reference Thermometers from Fluke Calibration measure, graph and record PRTs, thermocouples and thermistors. You can measure up to 0.3 seconds per sample and plot and scale trends in real time. Both thermometers have memory for up to 25 readings with statistics. The 1524 has two inputs with data logging memory for 15,000 measurements with date and time stamps.

- High accuracy PRTs: \pm 0.011 °C; Thermocouples: \pm 0.24°C; Thermistors: \pm 0.002 °C
- A simple user interface to see trends quickly
- Smart connectors to load probe information automatically
- Use a PC and optional LogWare II software to monitor and log more data over time

Models	Included accessories
	Fluke 1523 Bundled with:
1523-P1	5616 PRT (-200 °C to 420 °C, 100 ohm (1/4 x 12 inch)), Universal TC INFO-CON Connector, TPAK and Case
1523-P2	5628 PRT (-200 °C to 660 °C, 25 ohm (1/4 x 12 inch)), Universal TC INFO-CON Connector, TPAK and Case
1523-P3	5627A PRT (–200 °C to 420 °C, 100 ohm (1/4 x 12 inch)), Universal TC INFO-CON Connector, TPAK and Case
	Fluke 1524 Bundled with:
1524-P1	5616 PRT, Universal TC INFO-CON Connector, TPAK and Case
1524-P2	5628 PRT, Universal TC INFO-CON Connector, TPAK and Case
1524-P3	5627A PRT, Universal TC INFO-CON Connector, TPAK and Case

Fluke Calibration 1551A and 1552A Stik Thermometers



Best substitute for precision mercury-filled glass thermometers

The Fluke 1551A and 1552A Stik Thermometers are an accurate and repeatable substitute to mercury-in-glass thermometers. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, these intrinsically-safe, battery operated, portable reference thermometer are designed to go where you work.

- User-configurable temperature Trend/Stability indicator
- Optional data logging to internal memory
- 300-hour battery life
- NVLAP-accredited, NIST-traceable calibration included
- Accuracy of \pm 0.05 °C (\pm 0.09 °F) over full range
- Intrinsically safe (ATEX and IECEx compliant)
- Two models to choose from (-50 °C to 160 °C or -80 °C to 300 °C)

N10140

Specifications

Models	Included accessories
1551A-9*	1551A Ex Thermometer, Fixed RTD, -50 °C to 160 °C, 4.8 mm x 229 mm
1551A-12*	1551A Ex Thermometer, Fixed RTD, -50 °C to 160 °C, 6.35 mm x 305 mm
1551A-20*	1551A Ex Thermometer, Fixed RTD, -50 °C to 160 °C, 6.35 mm x 508 mm
1552A-12*	Thermometer, Fixed PRT, -80 °C to 300 °C, 6.35 mm x 305 mm

^{*}Datalogging option models also available as -DL

Recommended Accessories 1523/1524

5616-12-PPrecision PRT
305 mm x 6.35 mm

5610-9-P Precision Thermistor 229 mm x 3.2 mm





1523-CASE 1523/1524 Readout & Probe Carrying Case 2384-P, 2384-T INFO-CON Connectors, PRT (gray cap) or TC (blue cap)

Recommended Accessories 1551A/1552A



Fluke Calibration 7526A Precision Process Calibrator



The Fluke Calibration 7526A Precision Process Calibrator offers the best balance of economy and accuracy for benchtop calibration of temperature and pressure process instrumentation.

Easily calibrate RTD and thermocouple readouts, pressure gauges, temperature transmitters, digital process simulators, data loggers, multimeters and more.

- Sources and measures DC voltage, current, resistance, RTDs and thermocouples
- Precision pressure measurement using Fluke 750P Series Pressure Modules
- Measures 4-20 mA loop current
- Includes certificate of calibration traceable to national standards
- Thermocouple output/input:

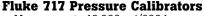
 10 mV to 75 mV ±(30 ppm of reading +2 μV)
- Transmitter output:0 mA to 24 mA (input with loop power) ±(100 ppm +1 μA)
- Resistance output: 5 Ω to 400 Ω $\pm 0.015 \Omega$

Fluke 717, 718, 718Ex and 719 Pressure Calibrators

Accurate and rugged, temperature calibration tools



Fluke 719



- Measure up to 10,000 psi/690 bar sensor (10000G model)
- · Compatible with non-corrosive gases and liquids

Fluke 718 Pressure Calibrators

- 1, 30, 100 and 300 psi ranges available
- Pump to 300 psi, 20 bar with internal pump (718-300G)
- 718-1G includes special low volume pump and high measurement resolution for low pressure calibration

Fluke 719 Electric Pressure Calibrators

- Electric pump enables one-handed pressure pumping and makes pressure calibration quicker and easier
- Best in class 0.025 % pressure measurement accuracy
- Programmable pump limit settings can eliminate over-pressurisation—set 'pump to' pressure values
- Two ranges, 30 psi and 100 psi



Fluke 718



Fluke 717

CE CUS N10140

Fluke 717, 718 and 719 common features

- Pressure switch test makes a difficult task easy, captures set, reset and deadband values of a pressure switch
- 717 and 718 measure pressure to 0.025 % of full scale with internal sensor
- Measure mA with 0.015 % accuracy and 0.001 mA resolution, while sourcing 24 V loop power

Specifications

Models	Range	Resolution	Comment	
717-1G 718-1G	+/- 1 psi, 27.5 in H ₂ 0, (-7 - +7 kPa)	+0.0001 psi, 0.0001 kPa, 0.0001 in H ₂ 0	Fluke 718 dry air only and includes on board pump	
717-15G	-12 to 15 psi, -83 to 103 kPa	0.001 ps1, 0.01 kPa, 0.01 in H ₂ 0	-	
717-30G	10 +- + 20	0.001 0.001 l-D-	Made 710 and Made 710 days air.	
718-30G* and 719-30G	-12 to + 30 psi, (-83 to 207 kPa)	0.001 psi, 0.001 kPa, 0.001 in H ₂ 0	Fluke 718 and Fluke 719 dry air only and includes on board pump	
717-100G	-12 to + 100 psi,	0.01 psi, 0.01 kPa, 0.01	Fluke 718 and Fluke 719 dry air	
718-100G*	(-83 to 690 kPa)	in H ₂ 0	only and includes on board pump	
717-300G	12 to 1200 mai	0.01 mai 0.01 lvDa 0.01	Fluke 718 dry air only and includes on board pump	
718-300G* and 719-100G	-12 to +300 psi, (-83 to +2070 kPa)	0.01 psi, 0.01 kPa, 0.01 in H ₂ 0		
717-500G	0-500 psi, 0-3450 kPa	0.01 psi, 0.1 kPa	Compatible with non-corrosive gases and fluids	
717-1000G	0-1000 psi, 0-6900 kPa	0.01 psi, 0.1 kPa	Compatible with non-corrosive gases and fluids	
717-1500G	0-1500 psi, 0-10342 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids	
717-3000G	0-3000 psi, 0-20700 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids	
717-5000G	0-5000 psi, 0-34500 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids	
717-10000G	0-10000 psi, 0-69000 kPa	1 psi, 1 kPa	Compatible with non-corrosive gases and fluids	
Pressure accuracy	0.035 % of range, 1 year. 0.025 % for 6 months, 717 and 718-1G: 0.05 % 6 months, 1 year, 718 and 717-300G 0.035 % 6 months, 0.05 % 1 year			
mA measurement	0-24 mA range	0.001 mA resolution	Accuracy: ± 0.015 % + 1 count	
Loop power	24 V DC Accuracy: ± 10 %		Accuracy: ± 10 %	
Warranty	Three-year on calibrator, one-year on pump.			

^{*}Intrinsically safe models available, see page 132.

Specialty Model

Fluke 718Ex Intrinsically Safe Pressure Calibrator

The Fluke 718Ex offers a convenient, self contained solution for pressure measurements and calibration.



- 30, 100, and 300 psi ranges (2, 7, and 20 bar)
- Pressure measurement to 0.05% of full span, using an internal pressure sensor.
- Pressure measurement to 200 bar using any of eight intrinsically safe Fluke 700PEx Pressure Modules

For more information, see page 132

Recommended Accessories



700ILF In-Line Filter



700HTP-2 Hydraulic Test Pump See page 146



700LTP-1 Low Pressure Test Pump See page 146



C116 Large Soft Case See page 144

Included Accessories

Fluke 717/718/719: Protective Yellow Holster with Test Lead Storage, Instructions Sheet, 9V Alkaline Battery (1X 717, 2X 718 & 719), Test Leads and Alligator Clips, Hose Kit (719 only), NIST-Traceable Calibration Report & Data.

Fluke 718Ex: Protective Red Holster, TL75 Test Leads, AC72 Test Clips, CD User Manual, Fluke 718Ex CCD, NIST-Traceable Calibration Report & Data.

Ordering Information

FLUKE-717 10,000G - 1G Pressure Calibrator, 10,000 PSI - 1PSI

FLUKE-718 Pressure 300G, 100G, 30G Calibrator

(10 models)
Pressure

FLUKE-718Ex 300G, 100G, 30G Intrinsically Safe Pressure Calibrator

FLUKE-719 100G, 30G Electric Pressure Calibrator 100PSI, 30 PSI

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Fluke 719Pro Pressure Calibrators



Fluke 719Pro





Eliminate the hassle of hand pumping!

The Fluke 719Pro is an exciting enhancement of the popular original 719 pressure calibrators. Notable improvements include expanding the pressure measurement range of the 100 PSI model up to 150 PSI and the addition of a 300 PSI range. The 719Pro adds a backlit display and precision temperature measurement with the addition of an accessory RTD probe available as a new accessory.

- · Electric pump for one handed pressure calibration
- Best in class pressure measurement uncertainty of 0.025%
- Variable release rate bleed valve for easy pressure adjustment
- 30 PSI, 150 PSI and the long requested 300 PSI (2,10 and 20 bar) pressure ranges
- Programmable pressure calibrator pump limit eliminates over-pressurisation and allows the user to program target pressures for pumping
- Extended pressure measurement range with any of 48 750PXX Pressure Modules
- Source mA with simultaneous pressure measurement to test valves and I/Ps
- Simulate mA signals to troubleshoot 4-20 mA loops
- Test pressure switches with built in switch test function
- Power transmitters during test using 24 V loop supply with simultaneous mA measurement

Pressure Modules

Fluke 750 Series Pressure Modules

- 48 Pressure Modules
- 0.025 % reference uncertainty
- Ranges from 1.000 in H₂O (0.2491 kPa) to 10,000 psi (68.948 MPa)
- Gage, differential, dual range, absolute and vacuum measurement models
- Rugged cases protect the modules from harsh environments
- Temperature compensated 0 °C to 50 °C

For more information see page 119



Fluke Process Calibrators in this catalogue displaying the Pressure Enabled symbol display readings from the 750 Series Pressure Modules.

Specifications

Pressure measurement	Range	Resolution	Accuracy
Fluke-719Pro-30G	-12 to 30 PSI /-0.8 to 2 bar	0.001 PSI, 0.0001 bar	± 0.025 % of
Fluke-719Pro-150G	-12 to 150 PSI /-0.8 to 10 bar	0.01 PSI, 0.001 bar	full scale, 6 months
Fluke-719Pro-300G	-12 to 300 PSI / -0.8 to 20 bar	0.01 PSI, 0.001 bar	monuis

Function	Range	Resolution	Accuracy (1 year)
mA DC (simulation & measurement)	0-24 mA DC	0.001 mA	± 0.015 % of reading ± 2 counts
Volts DC (measurement only)	30 V DC	0.001 V	± 0.015 % of reading ± 2 counts
Temperature (measurement only, Pt100 RTD)	-50 to 150 °C	0.01 °C	Temperature ± 0.1 °C
Loop power supply	24 V DC	N/A	24 mA at 24 V
Temperature effect (all functions)			Add ± 0.002 % F.S./°C for temps outside of 15 °C to 35 °C

Environmental	
Operating temperature	-10 °C to +50 °C
Storage temperature (without batteries)	-20 °C to +60 °C

Power requirements	
Battery	8 standard Alkaline AA batteries
Battery life	300 pump cycles to 150 PSI minimum; 1000 pump cycles to 30 PSI; 100 pump cycles to 300 PSI minimum

Physical	
Size (HxWxD)	24.13 cm x 11.18 cm x 7 cm
Weight	With holster 1.2 kg

Connections	
Pressure	1/8 inch female NPT
Electrical	Standard banana jacks
RTD	4 pin miniature circular
External module	6 pin miniature circular

Included Accessories

Fluke 719Pro: Test Leads with Alligator Clips, Printed User Manual and User Manual on CD-ROM, Fluid Trap, Carrying Case, 1/4 inch NPT to 1/4 inch ISO Adapter, Accessory Hose Kit with (2) 1/8 inch Quick Fit Adapters and 1 metre of hose, Traceable Certificate of Calibration.

Ordering Information

FLUKE-719PRO-30G

Electric Pressure Calibrator,

30PSIG

FLUKE-719PRO-150G

Electric Pressure Calibrator. 150PSIG

FLUKE-719PRO-

300G

Electric Pressure Calibrator, 300PSIG

FLUKE-71X-TRAP

Liquid & Dirt Trap for Fluke 718, 719 and 719Pro

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Fluke 721 and 721Ex Precision Pressure Calibrators



Fluke 721



Pressure calibration and temperature measurement for custody transfer applications

The Fluke 721 and 721Ex Precision Pressure Calibrators with dual isolated pressure sensors are the ideal tool for gas custody transfer applications allowing you to take simultaneous static and differential pressure measurements with a single tool.

The 721 and 721Ex can be configured by selecting either a 16 PSI (1.1 bar) or 36 psi (2.48 bar) low pressure sensor then add any of 7 high pressure ranges including 100, 300, 500, 1000, 1500, 3000 or 5000 psi (6.9, 20, 24.5, 69, 103.4, 200, 345 bar).

- Intrinsically Safe (721Ex version only) IECEx and Atex Ex ia IIB T3 Gb (Zone 1)
- Ideal for gas flow calibration (custody transfer) applications
- Two isolated, stainless steel, pressure sensors with 0.025% accuracy
- Switch test on both pressure inputs
- Pt100 RTD input for temperature measurement, (probe optional)
- Measures 4-20 mA signals
- Internal 24 V loop power supply can power a transmitter under test (721 models only)

Specifications 1 year

Low Pressure Sensor			High Pres	sure Sensor															
Model	Range 1	Resolution	Accuracy	Range 2	Resolution	Accuracy													
Fluke-721-1601 Fluke-721Ex-1601 16PSIG, 100PSIG				-12psi to +100psi -0.83bar to 6.9bar	0.01psi 0.0001bar	0.025% of full scale													
Fluke-721-1603 Fluke-721Ex-1603 16PSIG, 300PSIG				-12psi to +300psi -0.83bar to 20bar	0.01psi 0.001bar														
Fluke-721-1605 Fluke-721Ex-1605 16PSIG, 500PSIG				-12psi to +500psi -0.83bar à 34.5bar	0.01psi 0.001bar														
Fluke-721-1610 Fluke-721Ex-1610 16PSIG, 1000PSIG	-14psi to +16psi -0.97bar to 1.1bar			Opsi to +1000psi 0.00bar to 69bar	0.1psi 0.001bar														
Fluke-721-1615 Fluke-721Ex-1615 16PSIG, 1500PSIG				Opsi to +1500psi 0.00bar to 103.4bar	0.1psi 0.001bar														
Fluke-721-1630 Fluke-721Ex-1630 16PSIG, 3000PSIG			0.001psi, 0.0001bar of full scale	Opsi to +3000psi 0.00bar to 200bar	0.1psi 0.01bar	1													
Fluke-721-1650 Fluke-721Ex-1650 16PSIG, 5000PSIG		0.001psi,		0 psi to +5000 psi 0.00 bar to 345 bar	0.1psi 0.01bar	0.035% of full scale													
Fluke-721-3601 Fluke-721Ex-3601 36PSIG, 100PSIG		0.0001bar		-12psi to +100psi -0.83bar to 6,9bar	0.01psi 0.0001bar	-													
Fluke-721-3603 Fluke-721Ex-3603 36PSIG, 300PSIG				-12psi to +300psi -0.83bar to 20bar	0.01psi 0.001bar														
Fluke-721-3605 Fluke-721Ex-3605 36PSIG, 500PSIG																	-12psi to +500psi -0.83bar to 34.5bar	0.01psi 0.001bar	0.025%
Fluke-721-3610 Fluke-721Ex-3610 36PSIG, 1000PSIG	-14psi to +36psi -0.97bar to 2.48bar			Opsi to +1000psi 0.00bar to 69bar	0.1psi 0.001bar	of full scale													
Fluke-721-3615 Fluke-721Ex-3615 36PSIG, 1500PSIG				Opsi to +1500psi 0.00bar to 103.4bar	0.1psi 0.01bar														
Fluke-721-3630 Fluke-721Ex-3630 36PSIG, 3000PSIG				Opsi to +3000psi 0.00bar to 200bar	0.1psi 0.01bar														
Fluke-721-3650 Fluke-721Ex-3650 36PSIG, 5000PSIG				Opsi to +5000psi 0.00bar to 345bar	0.1psi 0.01bar	0.035% of full scale													

Speciality Model

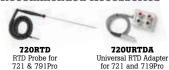
Fluke 721Ex Precision Pressure Calibrator

The ideal tool for gas custody transfer applications in potentially explosive atmospheres.



For more information, see page 132

Recommended Accessories



Included Accessories

Fluke 721/Ex: Soft Case, 4 AA Batteries, Manual, Traceable Calibration Certificate, Test Leads.

Ordering Info	rmation
FLUKE-721-3650	Dual Sensor Pressure Calibrator
FLUKE-721-3630	Dual Sensor Pressure Calibrator
FLUKE-721-3615	Dual Sensor Pressure Calibrator
FLUKE-721-3610	Dual Sensor Pressure Calibrator
FLUKE-721-3605	Dual Sensor Pressure Calibrator
FLUKE-721-3603	Dual Sensor Pressure Calibrator
FLUKE-721-3601	Dual Sensor Pressure Calibrator
FLUKE-721-1650	Dual Sensor Pressure Calibrator
FLUKE-721-1630	Dual Sensor Pressure Calibrator
FLUKE-721-1615	Dual Sensor Pressure Calibrator
FLUKE-721-1610	Dual Sensor Pressure Calibrator
FLUKE-721-1605	Dual Sensor Pressure Calibrator
FLUKE-721-1603	Dual Sensor Pressure Calibrator
FLUKE-721-1601	Dual Sensor Pressure Calibrator
Intrinsically Safe no (add Ex to the above	nodels available ve model numbers).
FLUKE-720RTD	RTD Probe for Fluke 721 and 719Pro

Contact your local distributor for price and availability.
www.fluke.com/au/wtb

Universal RTD

Adapter for Fluke 721 and 719Pro

FLUKE-

720RTDUA

Fluke 700G Precision Pressure Test Gauges



Fluke 700G



Pressure Gauges designed to handle all your **Pressure Calibration needs**

With best-in-class accuracy and measurements, the Fluke 700G Series Precision Pressure Test Gauges were designed to handle all of your pressure calibration needs. The 700G series pressure test gauges are rugged and easy to use, with twenty three models ranging from ± 10 in H20/20 mbar to 10,000 psi/690 bar including absolute pressure ranges.

When combined with the Fluke 700PTPK or 700HTPK you've got a complete pressure testing solution for up to 600 psi (40 bar) with the PTP-1 pneumatic pump and up to 10,000 psi (690 bar) with the HTP-2 hydraulic pump.

- Precision pressure measurement from ±10 inH2O/20 mbar to 10,000 psi/690 bar
- Absolute pressure measurement ranges 15, 30, 100, 300 psia
- Accuracy to 0.05 % of full scale
- Reference class gauge accuracies to 0.04 % of reading
- Easy to use, rugged construction for reliable performance
- CSA; Class 1, Div 2, Groups A-D rating
- ATEX rating: II 3 G Ex nA IIB T6
- Combine the Pneumatic Test Pump Kits and Hydraulic Test Pump Kits with any Fluke-700G Series Gauge, 1,000 psi (69 bar) or less, to make a complete pressure testing
- Log up to 8,493 pressure measurements to memory (requires 700G/TRACK software)





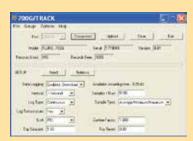




Specifications

Size (HxWxD)	12.7 cm x 11.4 cm x 3.7 cm
Pressure connection	1/4 in NPT Male
Housing/Weight	Cast ZNAL 0.56 kg with holster
Display	5.5 digits, 16.53 mm high 20-segment bar graph, 0 to 100%
Power	Three AA alkaline batteries
Battery life	1,500 hours without backlight (continuous on), 2,000 hours at slow sample rate
Warranty	Three years

700G/TRACK Logging Software



- Use with Fluke 700G Series Gauges to perform real time data logging to a PC
- Download logging configurations to the 700G Series Gauges for a remote logging
- · Configure logging event reading rate, duration and measurement units
- · Upload measurements logged remotely and display or export measurements
- · Includes communication cable for connection to a PC

Recommended Kits

Buy more, Save more



Fluke-700PTPK Pneumatic **Test Kit**

- · Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) or less, to make a complete pressure testing kit
- Connect the 700G Series gauge directly to the included PTP-1 hand pump



Fluke 700HTPK Hydraulic **Test Kit**

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10,000 psi, 690 bar with the included 700HTP-2 test pump
- Hard case protects pump and gauge and allows gauge to remain connected to the pump



Fluke-700PTPK2 Premium **Pneumatic Test Pump Kit**

- Pneumatic Hand Pump
- Premium, no tools required gauge connector
- 1 premium transmitter test hose kit and adapters



Fluke-700HTPK2 **Premium Hydraulic Test Pump Kit**

- Hydraulic Hand Pump
- Premium, no tools required gauge connector
- premium transmitter test hose kit and adapters

For more details see page 136

Specifications

Model	Range	Resolution	Accuracy	Burst Pressure
Fluke-700G01	-10 to +10 inH20 -20 mbar to 20 mbar	0.001 inH20 0.001 mbar	Positive Pressure ± 0.1% of range	3 psi 210 mbar
Fluke-700G02	-1 to +1 psi -70 mbar to 70 mbar	0.0001 mbar 0.0001 psi 0.001 mbar	Vacuum ± 0.1% of range	5 psi 350 mbar
Fluke-700G04	-14 psi to 15 psi 97 bar to 1 bar	0.001 psi 0.0001 bar		60 psi 4 bar
Fluke-700G05	-14 psi to 30 psi 97 bar to 2 bar	0.001 psi 0.0001 bar		120 psi 8 bar
Fluke-700G06	-12 psi to 100 psi 83 bar to 6.9 bar	0.01 psi 0.0001 bar		400 psi 26 bar
Fluke-700G27	-12 psi to 300 psi 83 bar to 20 bar	0.01 psi 0.001 bar		1200 psi 80 bar
Fluke-700G07	-12 psi to 500 psi 83 bar to 34 bar	0.01 psi 0.001 bar	Positive Pressure ± 0.05% of range	2000 psi 138 bar
Fluke-700G08	-14 psi to 1000 psi 97 bar to 69 bar	0.1 psi 0.001 bar	Vacuum ± 0.1% of range	4000 psi 266 bar
Fluke-700G10	-14 to 2000 psi 97 bar to 140 bar	0.1 psi 0.01 bar		8000 psi 550 bar
Fluke-700G29	-14 psi to 3000 psi 97 bar to 200 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700G30	-14 psi to 5000 psi 97 bar to 340 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700G31	-14 psi to 10000 psi 97 bar to 690 bar	1 psi 0.01 bar		20000 psi 1035 bar
Fluke-700GA4	0 to 15 psia 0 to 1 bar absolute	0.001 psi 0.0001 bar		60 psi 4 bar
Fluke-700GA5	0 to 30 psia 0 to 2 bar absolute	0.001 psi 0.0001 bar	0.000/ -f	120 psi 8 bar
Fluke-700GA6	0 to 100 psia 0 to 6.9 bar absolute	0.01 psi 0.0001 bar	0.05% of range	400 psi 27 bar
Fluke-700GA27	0 to 300 psia 0 to 20 bar absolute	0.01 psi 0.001 bar		1200 psi 80 bar
Fluke-700RG05	-14 to +30 psi -0.97 to +2 bar	0.001 psi 0.0001 bar	Positive Pressure ± 0.04% of reading ± 0.01% of range, Vacuum ± 0.1% of range	90 psi 6 bar
Fluke-700RG06	-12 to 100 psi -0.83 to 6.9 bar	0.01 psi 0.0001 bar		400 psi 27 bar
Fluke-700RG07	-12 to 500 psi -0.83 to 34	0.01 psi 0.001 bar		2000 psi 138 bar
Fluke-700RG08	-14 to 1000 psi -0.97 to 69 bar	0.1 psi 0.001 bar	Positive Pressure ± 0.04% of reading ± 0.01% of range, Vacuum ± 0.1%	4000 psi 275 bar
Fluke-700RG29	-14 to 3000 psi -0.97 to 200 bar	0.1 psi 0.01 bar	of range	10000 psi 690 bar
Fluke-700RG30	-14 to 5000 psi -0.97 to 340 bar	0.1 psi 0.01 bar		15000 psi 1035 bar
Fluke-700RG31	-14 to 10000 psi -0.97 to 690 bar	1 psi 0.01 bar		20000 psi 1380 bar

700R Ranges: Temperature Compensation 0 e°C to 50°C to rated accuracy. For temperatures from -10 °C to 0 °C and 50 °C to 55 °C, add .005 % FS/°C.

Media compatibility:

- 10 inH²O, 1, 15, 30 psi: any clean dry non-corrosive gas
- 100, 300, 500, 1000 psi: any liquids or gases compatible with 316 stainless steel and above 1000 psi: any non-flammable, non-toxic, non-explosive, non-oxidising liquid or gas compatible with 316 stainless steel.



Included Accessories

Manual on CD-ROM, Traceable Certificate of Calibration, 1/4" NPT to 1/4" ISO Adapter.

Ordering Information

FLUKE- 700G01	Pressure Gauge, ±10 inH20 WC (0.4 PSIG)
FLIIKE-	Pressure Gauge ±30

FLUKE- Pressure Gauge, ±30 inH20 WC (1 PSIG)

FLUKE Pressure Gauge, -700G04 ± 15 PSIG

FLUKE Pressure Gauge, -700G05 30 PSIG

FLUKE Pressure Gauge, 100 PSIG

FLUKE Pressure Gauge, -700G27 300 PSIG

FLUKE Pressure Gauge, 500 PSIG

FLUKE Pressure Gauge, -700G08 1,000 PSIG FLUKE Pressure Gauge,

2,000 PSIG

FLUKE Pressure Gauge, -700G29 3,000 PSIG

-700G10

FLUKE Pressure Gauge, 5,000 PSIG

FLUKE Pressure Gauge, -700G31 10,000PSIG

FLUKE Pressure Gauge, **-700GA4** 15PSIA

FLUKE Pressure Gauge, -700GA5 PSIA

FLUKE Pressure Gauge, 100PSIA

FLUKE Pressure Gauge, -700GA27 300PSIA

FLUKE Pressure Gauge, -700RG05 Reference, 30PSIG

FLUKE Pressure Gauge, -700RG06 Reference, 100PSIG

FLUKE Pressure Gauge, -700RG07 Reference, 500PSIG

FLUKE Pressure Gauge, -700RG08 Reference, 1000PSIG

FLUKE Pressure Gauge,
-700RG29 Reference, 3000PSIG

FLUKE Pressure Gauge, -700RG30 Reference, 5000PSIG

FLUKE Pressure Gauge,
-700RG31 Reference, 10000PSIG

700G Data Logging Software and Cable

FLUKE- Hydraulic Test Pump

700HTPK Kit, 0 to 10000
PSI/690 BAR

FLUKE- Pneumatic Test Pump
700PTPK Kit, 0 to 600PSI/40BAR
FLUKE- Premium Hydraulic

700HTPK2 Test Pump Kit

FLUKE- Premium Pneumatic
700PTPK2 Test Pump Kit

Fluke 750P and 700PEx Series **Pressure Modules**



Fluke 750P









Precision pressure measurement for 750 and 720 Series Calibrators

The Fluke 750P Series Pressure Modules are the ideal pressure modules to enable gage, differential and absolute pressure measurement with Fluke 750 and 740 Series DPCs and 725, 726 MPCs to measure pressure.

A family of 48 Pressure Modules covers pressure calibrations from 0 to 1 in H20 to 10000 psi (2.5 mBar to 690 bar).

- 0.025 % reference uncertainty
- 6-month and 1-year specifications
- Intrinsically safe models are Class I Div 1 Groups A-D T4, Ta = 0 °C to +50 °C, ATEX II 1G Ex ia $\stackrel{?}{\text{IIC}}$ T4 compliant

Specifications

Model	Parameter/Range	Burst Rating ⁶	Hi Side Media ²	Lo Side Media ²	Reference Uncertainty ⁴
Differential		nating	mount	mount	Oncortainty
750P00	0 to 1 in H ₀ 0 (0 to 2.5 mBar)	30X	Dry Air	Dry Air	± 0.15 %
750P01 ⁴	0 to 10 in H ₂ O (0 to 25 mBar)	3X	Dry Air	Dry Air	± 0.1 %
750P02	O to 1 psi (O to 70 mBar)	ЗХ	Dry Air	Dry Air	± 0.050 %
750P22	O to 1 psi (O to 70 mBar)	ЗХ	316 SS	Dry Air	± 0.050 %
750P03	0 to 5 psi (0 to 350 mBar)	ЗХ	Dry Air	Dry Air	± 0.02 %
750P23	0 to 5 psi (0 to 350 mBar)	4X	316 SS	Dry Air	± 0.02 %
750P04	0 to 15 psi (0 to 1 bar)	ЗХ	Dry Air	Dry Air	± 0.0175 %
750P24 ⁴	O to 15 psi (O to 1 bar)	4X	316 SS	Dry Air	± 0.0175 %
Gage					
750P05 ⁴	0 to 30 psi (0 to 2 bar)	4X	316 SS	N/A	± 0.0175 %
750P06 ⁴	0 to 100 psi (0 to 7 bar)	4X	316 SS	N/A	± 0.0175 %
750P27 ⁴	0 to 300 psi (0 to 20 bar)	4X	316 SS	N/A	± 0.0175 %
750P07	0 to 500 psi (0 to 35 bar)	4X	316 SS	N/A	± 0.0175 %
750P08	0 to 1000 psi (0 to 70 bar)	ЗХ	316 SS	N/A	± 0.0175 %
750P09 ⁴	0 to 1500 psi (0 to 100 bar)	3X	316 SS	N/A	± 0.0175 %
750P2000	0 to 2000 psi (0 to 140 bar)	3X	316 SS	N/A	± 0.0175 %
High				•	
750P29 ⁴	0 to 3000 psi (0 to 200 bar)	ЗХ	316 SS	N/A	± 0.0175 %
750P30	0 to 5000 psi (0 to 340 bar)	ЗХ	316 SS	N/A	± 0.0175 %
750P31	0 to 10000 psi (0 to 700 bar)	2X	316 SS	N/A	± 0.0175 %
Absolute					
750PA3	0 to 5 psia (0 to 350 mBar)	4X	316 SS	N/A	± 0.03 %
750PA4 ⁴	0 to 15 psia (0 to 1 bar)	4X	316 SS	N/A	± 0.03 %
750PA5	0 to 30 psia (0 to 2 bar)	4X	316 SS	N/A	± 0.03 %
750PA6	0 to 100 psia (0 to 7 bar)	4X	316 SS	N/A	± 0.03 %
750PA27	0 to 300 psia (0 to 20 bar)	4X	316 SS	N/A	± 0.03 %
750PA7	0 to 500 psia (0 to 35 bar)	4X	316 SS	N/A	± 0.03 %
750PA8	0 to 1000 psia (0 to 70 bar)	ЗХ	316 SS	N/A	± 0.03 %
750PA9	0 to 1500 psia (0 to 100 bar)	3X	316 SS	N/A	± 0.03 %
Vacuum					
750PV3	-5 psi (-350 mBar)	4X	316 SS	Dry Air	± 0.03%
750PV4	-15 psi (-1 bar)	4X	316 SS	Dry Air	± 0.03%
Dual				_	_
750PD2	-1 to 1 psi (-70 to 70 mBar)	4X	316 SS	Dry Air	± 0.05%
750PD3	-5 to 5 psi (-350 to 350 mBar)	4X	316 SS	Dry Air	± 0.03%
750PD10	-10 to 10 psi (-700 to 700 mBar)	4X	316 SS	Dry Air	± 0.025%
750PD4	-15 to 15 psi (-1 to 1 bar)	4X	316 SS	Dry Air	± 0.0175%
750PD5	-15 to 30 psi (-1 to 2 bar)	4X	316 SS	N/A	± 0.0175%
750PD50	-15 to 50 psi (-1 to 3.5 bar)	4X	316 SS	N/A	± 0.0175%
750PD6	-15 to 100 psi (-1 to 7 bar)	4X	316 SS	N/A	± 0.0175%
750PD7	-15 to 200 psi (-1 to 14 bar)	4X	316 SS	N/A	± 0.0175%
750PD27	-15 to 300 psi (-1 to 20 bar)	4X	316 SS	N/A	± 0.0175%

For a complete list of Fluke Pressure Modules, go to au.fluke.com/PCT

- 1. Total uncertainty, % of full span for temperature range 0 °C to +50 °C, one year interval. Total uncertainty, 1.0 % of full span for temperature range -10 °C to 0 °C, one year interval. No 6 month specification available for range -10 °C
- to 0 °C. 2. "NONCORROSIVE GASSES" indicates dry air or non-corrosive gas as compatible media. "Stainless Steel 316-SS" indicates media compatible with Type 316 Stainless Steel.
- 3. Specifications % of Full Span unless otherwise noted.
 4. Intrinsically Safe pressure module available in this pressure range

For more information, go to au.fluke.com/PCT

Specialty Model

Fluke 700PEx **Pressure Modules**

The Fluke 700PEx Pressure Modules extend the measurement capabilities of the

Fluke 725Ex Multifunction Process Calibrator. Pressure readings can be displayed in any of 10 different pressure units specified in the calibrator setup.



🔂 II 1 G Ex ia IIC T4

For more information, see page 132

Recommended Accessories



700PTP-1 eumatic Test Pump See page 146



700HTP-2 Hydraulic Test Pump See page 146



700LTP-1 Low-Pressure Test Pump See page 146



700HTH-1 Hydraulic Test Hose See page 146



700 PMP Pressure Pump See page 146



700PRV-1 Pressure Relief Valve Kit





Contact your local distributor for price and availability. www.fluke.com/au/wtb

Fluke Calibration 2700G Series Reference Pressure Gauges



The Fluke Calibration 2700G Reference Pressure Gauges provide best-in-class measurement performance in a rugged, easy-to-use, economical package. Improved measurement accuracy allows it to be used for a wide variety of applications. It is ideal for calibrating pressure measurement devices such as pressure gauges, transmitters, transducers, and switches. In addition, it can be used as a check standard or to provide process measurements with data logging.

- Precision pressure measurement from 100 kPa (15 psi) to 70 MPa (10,000 psi)
- Accuracy to 0.02 % of full scale
- Easy-to-use, rugged construction for reliable performance
- Combine with a Fluke PTP or HTP pump kit or P551X comparison test pump for a complete pressure testing solution

Fluke Calibration P5510 Pneumatic Comparison Test Pump



Fluke P5510

The P5510 Pneumatic Comparison Test Pump is designed for testing pressure measuring instruments against master test instruments. This cost effective instrument provides precise control for important calibration requirements and include many features found in our popular line of pneumatic deadweight testers.

Higher pressure ranges available:

Fluke P5513 Gas Comparison Test Pump Pressure range 0 to 20 MPa (3k psi); Vacuum -80 kPa (-12 psi)

Fluke P5514 Gas Comparison Test Pump Pressure range 0 to 70 MPa (10k psi)

Fluke P5515 Gas Comparison Test Pump Pressure range 0 to 140 MPa (20k psi)

P5531 Dirt/Moisture Trap

Designed to mount directly on the deadweight tester and featuring an acrylic chamber for visibility of contaminates this unit utilises the standard test port adapters for easy instrument connections.



P5532 Dirt/Moisture Trap

This high pressure version is provided with an aluminium central chamber for safety and utlises the standard test port adapters.



Complete Bench Top Pressure Calibration Solution



Combine P5500 Comparison Test Pumps with one or more 2700G Reference Pressure Gauges for a complete 0.02% accuracy calibration system

The 2700G has an easy-to-use interface that allows you to configure the sampling rate, tare value, damping and auto off time interval as well as reset the min/max pressure.

The unique test port design of the P5500 series allows for hand tight connection of the 2700G without the use of PTFE tape.

- P5510: integrated pneumatic hand pump with pressure generation to 300 psi (2 MPa), vacuum to -12 psi (-80 kPa)
- P5513: pneumatic pressure adjustment to 3,000 psi (21 MPa) with fine adjust inlet and outlet valves and precise screw press
- P5514: hydraulic pressure generation and adjustment to 10 k psi (70 MPa) with fine screw press and reservoir
- P5515: integrated hydraulic pressure generation and adjustment to 20 k psi (140 MPa) with high volume priming pump and fine screw press

Included Accessories

2700G Gauges: 1/4 NPT Female to 1/4 BSP Male Adapter, 1/4 NPT Female to M20X1.5 Adapter, Universal AC Power Supply, USB Communication Cable, Manual on CD, Calibration Certificate showing traceability.

Optional: ISO 17025 Accredited Calibration available for 2700G and P551X/2700G models (add "/C" to the below model number).

Ordering Information

2700G-BG100K Reference Pressure Gauge, -15 to 15 PSI

2700G-BG200K Reference Pressure Gauge, -15 to 30 PSI

2700G-BG700K Reference Pressure Gauge, -12 to 100 PSI

2700G-BG2M Reference Pressure Gauge, -12 to 300 PSI

2700G-BG3.5M Reference Pressure Gauge, -12 to 500 PSI

2700G-BG7M Reference Pressure

Gauge, -12 to 1000 PSI

2700G-G20M Reference Pressure
Gauge, 0 to 3,000 PSI

2700G-G35M Reference Pressure Gauge, O to 5,000 PSI

2700G-G70M Reference Pressure Gauge, 0 to 10,000 PSI

P5510-2M Pneumatic Comparison Test Pump

P5513-20M Pneumatic Comparison

Test Pump
P5514-70M* Hydraulic Comparison

Hydraulic Comparison Test Pump, Viton Seals 0-10 000 PSI (70 MPa)

P5515-140M* Hydraulic Comparison

Test Pump, Viton Seals 0 to 20 000 PSI (140 MPa)

Ethylene Propylene Seals option also available, add -EP to the above model.

P5510-2700G-1 P5510 Pneumatic

Calibrator, 2 MPA (300 PSI), 1 Gauge

P5513-2700G-1 P5513 Pneumatic

Calibrator, 20 MPA (3000 PSI), 1 Gauge

P5514-2700G-1 P5514 Pneumatic

Calibrator, 70 MPA (10,000 PSI), 1 Gauge

P5515-2700G-1 P5515 Pneumatic

Calibrator, 70 MPA (10,000 PSI), 1 Gauge

P551X-2700G Kits available with 3 gauge option, add -3 to the above model numbers

P5531 Dirt/Moisture Trap

0 to 500 PSI (35 bar)

P5532 Dirt/Moisture Trap 0 to 3.000 PSI (210 bar)

FLUKE ®

Fluke Calibration P3000 Deadweight Testers





N10140

Fluke P3000

The P3000 Series is the culmination of over 50 years of experience in the production and design of high performance pressure standards. With features designed to improve accuracy and performance, increase reliability and simplify operation these deadweight testers can be used to calibrate virtually any pressure sensing device, including transducers, transmitters, gauges or pressure switches. All units provided with accredited calibration.

P3000 Pneumatic Deadweight Tester

High performance gas deadweight testers with unique suspended piston design for vacuum calibration.

- 0.015% of reading accuracy standard (0.008% optional)
- 3 to 500 psi (0.2 to 35 bar) pressure
- Optional low range 0.03 to 1 bar vacuum (1 to 30 inHg)
- Integrated vacuum and pressure pump available to 2 MPa (300 psi)

P3100 Hydraulic Deadweight Tester

Highly accurate oil deadweight tester with quick and easy-to use single and dual piston deadweight models

- Pressure ranges to 140MPa (20 k psi, 1400 bar)
- 0.015% of reading accuracy standard (0.008% optional)
- Built in pressure generation and adjustment
- Single or dual piston formats

P3200 Hydraulic Deadweight Tester

Hydraulic deadweight tester specially designed to use water as a test medium.

- Pressure ranges to 70MPa (10 k psi, 700 bar)
- 0.015% of reading accuracy standard (0.008% optional)
- Built in pressure generation and adjustment is standard
- Single or dual piston formats
- · Water media

Accuracy		
±0.015% of reading (±0.008% optional) *Accuracy based on % of reading from 10% to 10 corrections found on the calibration certificate. B		
Mass and PCU Materials of Construction	n	
Standard weight material	Series 3 non-magnetic aus	stenitic stainless steel
Weight density	7.8 g/cm ³	
Optional fractional weights	Solution heat treated alum	inum
Weight density	2.7 g/cm ³	
Models P3011, P3012, P3013, P3022, P3023, P3025 (V)	Piston Material: Cylinder Material: Coefficient of Expansion:	Ceramic Martensitic steel 11 ppm/°C
Models P3014, P3015, P3025 (P) P3031, P3032 (P & V)	Piston Material: Cylinder Material:	Tungsten carbide Martensitic steel

PressCal Software

PressCal software provides a quick and effective solution to enhance the pressure measurement uncertainty of Deadweight Testers. PressCal features an easy-to-use user Interface that allows you to enter all the necessary corrections and parameters to accurately determine the pressure generated by the DWT.

PressCal also provides:

- Automatic certificate generation
- Customer details management

16.5 ppm/°C

· Real-time auditing

Coefficient of Expansion:

• Choice of 12 pressure units

Included Accessories

ISO 17025 Accredited Calibration Certificate, Operating Fluid (where applicable), Spare Seals, Adaptors for 1/8, ¼, 3/8, ½ NPT and BSP, and Metric Adaptors (M20 and M14).

Ordering Information

* -P indicates built-in pump optional.

P3011-KPA-P* Vacuum Deadweight Tester (-100 KPA)

P3011-INHG-P* Vacuum Deadweight Tester (-30 INHG)

P3011-MBAR-P* Vacuum Deadweight Tester (-1000 MBAR)

Vacuum Deadweight

Tester (-760 MMHG)
P3012-KPA-P Gas Deadweight

P3011-MMHG-P*

P3012-KPA-P Gas Deadweight Tester, 100 KPA, with Pump

P3012-MBAR-P Gas Deadweight Tester, 1000 MBAR, with Pump

P3012-INH20-P Gas Deadweight Tester, 400 INH20, with Pump

P3013-KPA-P Gas Deadweight Tester, 200 KPA, with Pump

P3013-MBAR-P Gas Deadweight Tester, 2000 MBAR, with Pump

P3013-INH20-P Gas Deadweight Tester, 800 INH20, with Pump

P3014-KGCM2-P Gas Deadweight Tester, 10 KGF/CM2, with Pump

P3014-PSI-P Gas Deadweight Tester, 150 PSI, with Pump

P3014-KPA-P Gas Deadweight Tester, 1000 KPA,

with Pump

P3014-MPA-P Gas Deadweight Tester, 1 MPA, with Pump

P3015-BAR-P* Gas Deadweight Tester, 35 BAR

P3015-KGCM2-P* Gas Deadweight Tester, 35 KGF/CM2

P3015-PSI-P* Gas Deadweight Tester, 500 PSI

P3015-KPA-P* Gas Deadweight Tester, 3500 KPA

P3015-MPA-P Gas Deadweight Tester, 3.5 MPA

Fluke Calibration 6531 and 6532 E-DWT Electronic Deadweight Tester Kits



Fluke 6532



C

Fluke 6531

A powerful, complete hydraulic pressure calibration system to cover a wide workload.

- Pressure ranges available to 200 MPa (30,000 psi)
- ± 0.02 % of reading total one-year accuracy, 0.025 % for two years
- Low torque variable volume allows for pressure generation and control up to 200 MPa (30,000 psi) with minimal physical effort
- Built-in priming system to fill system with test fluid and purge unwanted air to assure smooth operation
- Unique test port design eliminates the need for PTFE tape or wrenches. Adapters included for 1/8 in, 1/4 in, 3/8 in and 1/2 in NPT, 1/8 in, 1/4 in, 3/8 in and 1/2 in BSP, M20 x 1.5 and M14 x 1.5 6531 6532
- Compatible with a wide range of liquids, including water. Vacuum fill kit included to fill the E-DWT with any compatible test medium
- AutoTest[™], AutoRange, ready/not ready indicator, on-board data capture and storage, overpressure alarm, RS-232 remote interface and other advanced features to simplify testing, improve safety and prevent calibration errors and damage to equipment
- Optional foot switch accessory allows hands-free data collection when running AutoTests
- Rechargeable battery pack and transport case options for field operation

COMPASS® for Pressure Calibration Software

COMPASS® Software for Pressure is a universal platform for all of your pressure calibration software needs. From piston gauges calibrating individual devices in the cal lab to transfer standards characterising racks of sensors in production, COMPASS® maximises the automation of your calibration and testing processes.

- Runs complete, automated calibration sequences on single or multiple units under test (UUTs), including leak testing and pre-test exercising
- Compatible with transfer standards, piston gauges and data acquisition hardware from all manufacturers



Specifications

Power Requirements	To RPM4-E-DWT: 12 V DC 1.2 A To AC to DC Power Supply: 100 V AC to 240 V AC, 50/60 Hz
Operating Temperature Range	10 °C to 40 °C
Storage Temperature Range	- 20 °C to 70 °C
Relative Operating Humidity	0 % to 70 %
Relative Storage Humidity	0 % to 100 %
Weight	1 Q-RPT: 12 kg approximate 2 Q-RPT: 14 kg approximate
Dimensions	E-DWT Footprint: 41.4 cm W x 37.1 cm D E-DWT Height: 26.9 cm, 33.6 cm to max variable volume handle height
Pressure Range (Dependent on Q-RPT(s) included in RPM4-E-DWT).	200 MPa (30 000 psi) with standard variable volume 100 MPa (15 000 psi) with high volume variable volume
Operating Medium	All 6531 and 6532 E-DWT Kits are shipped dry, standard preparation. Can be filled with di-ethyl-hexyl sebacate, silicon oils, propylene glycol, fully fluorinated liquids, partially fluorinated liquids, isopropyl alcohol and distilled water or mineral oil.
Pressure Limits	Maximum Working Pressure: Range of RPM4-E-DWT monitor's Hi Q-RPT 200 MPa (30 000 psi) with standard variable volume 100 MPa (15 000 psi) with high volume variable volume Maximum Priming Pump Pressure: 700 kPa (100 psi) Maximum Working Pressure: With Lo Q-RPT selected: Range of RPM4-E-DWT monitor's Lo Q-RPT Communication Ports: RS-232 (COM1, COM2)
Pressure Measurement	
Normal operating temperature range	10 °C to 40 °C
Resolution	Default: 0.01 % of active range User adjustable to 1 ppm of Q-RPT maximum or 10 ppm of active AutoRange, whichever is greater
Precision ¹	± 0.018 % of reading or 0.0018 % of Q-RPT span, whichever is greater
Predicted Stability ²	One Year: \pm 0.0075 % of reading Two Year: \pm 0.015 % of reading
Measurement Uncertainty ³	One Year: ± 0.02 % of reading or 0.002 % of Q-RPT span, whichever is greater Two Year: ± 0.025 % of reading or 0.0025 % of 0-RPT span

Combined linearity, hysteresis, and repeatability. Precision does not include stability or calibration reference uncertainty.

Predicted Q-RPT measurement stability limit (k=2) assuming regular use of AutoZero function and short term stability between regering.

whichever is greater

Two Year: ± 0.025 % of reading or 0.0025 % of Q-RPT span,

Included Accessories

Power Supply, Operating Manual Vacuum Liquid Fill Kit, Test Station Quick-Mount Fitting NPT Adapters: (1/8 in, 1/4 in, 3/8 in and 1/2 in) BSP Adapters: (1/8 in, 1/4 in, 3/8 in and 1/2 in) Metric Adapters: (M20 x 1.5 and M14 x 1.5)

Ordering Information

0.009	
6531-7M	Electronic Deadweight E-DWT, 7 MPA (1K PSI)
6531-14M	Electronic Deadweight E-DWT, 14 MPA (2K PSI)
6531-20M	Electronic Deadweight E-DWT, 20 MPA (3K PSI)
6531-40M	Electronic Deadweight E-DWT, 40 MPA (6K PSI)
6531-70M	Electronic Deadweight E-DWT, 70 MPA (10K PSI)
6531-140M	Electronic Deadweight E-DWT, 140 MPA (20K PSI)
6532-70M	Electronic Deadweight E-DWT, 70 MPA (10K PSI)
6532-140M	Electronic Deadweight E-DWT, 140 MPA (20K PSI)

Maximum deviation of the Q-RPT indication from the true value of applied pressure including precision, predicted stability with rezeroing, temperature effect from 10 °C to 40 °C and calibration uncertainty (assumes calibration reference uncertainty of ± 0.005 % of reading, k=2), combined and expanded (k=2) following the ISO "Guide to the Expression of Uncertainty in Macsument".

FLUKE ®

Calibration

Fluke Calibration 3130 Portable Pressure Calibrator



Fluke P3130

The Fluke 3130 Portable Pneumatic Pressure Calibrator is ideal for calibrating pressure transmitters, transducers, gauges and similar devices. The Fluke 3130 contains everything you need to generate, control and measure pressure, as well as read the output of the device under test.

- Measure and generate pressures from vacuum to 2 MPa (300psi, 20bar)
- Internal pump can generate vacuum to -80 kPa (-12 psi, -0.8 bar) or pressure to 2 MPa (300psi, 20bar)
- Supply pressure connection allowing the use of external gas supply up to 2 MPa (300psi, 20bar)
- Measure or generate 4-20 mA
- Measure 0 to 30 V DC
- Compatible with Fluke 750P Pressure Modules
- Variable volume for fine adjustment of pressures
- Pressure measurement accuracy of ± (0.025% reading + 0.01% FS)
- · Electrical measurement and 24 volt supply for close looped calibrations

Specifications

Environmental	
Temperature	Operating: -10 °C to +50 °C; Storage: -20 °C to +60 °C
Physical	
Size in cm (LxWxD) and Weight	38.7 x 30.5 x 17.8, 7.7 kg
EMI/RFI Conformance	EN61326:2006 Annex A
Connectors/Ports	1/8 in NPT (External supply port and test port)
Ranges	
Pressure (internal pump)	-80 kPa to 2 MPa (-12 to 300 psi, -0.8 to 20 bar)
Pressure (external air)	0 to 2 MPa (0 to 300 psi, 0 to 20 bar)
mA	0 to 24.000 mA
Volts	0 to 30.000 V DC
Instrumental Measurement Uncertainty	
Pressure	0.025 % of reading ± 0.01 % FS
mA	0.015 % of reading ± 0.002 mA
Volts	0.015 % of reading ± 0.002 V

Fluke Calibration 6241 and 6242 PPC4E Gas Pressure Controllers



C

Fluke 6241

Fluke Calibration's 6241 and 6242 PPC4E Gas Pressure Controller Kits feature PPC4E models to cover a very wide workload combined with the accessories needed for a complete calibration system.

Included is the Fluke Calibration SPLT self-purging liquid trap to capture moisture in the test line and automatically purge to prevent contamination of the PPC4E, the interconnect hardware and a test station with a quick connect fitting to mount your pressure device to be tested. The 6241 and 6242 Kits provide the hardware for a complete gas calibration system.

- Precise pressure measurement and automated control, with ranges available from ±15 kPa to 14 MPa (± 2.2 psi to 2,000 psi)
- Switch between absolute, gauge and bidirectional gauge modes and meet easy-tounderstand full-year measurement specifications without added hardware or special calibration or maintenance operations
- ± 0.02 % one-year accuracy of any selected Auto-range span, with Auto-range span as low as 1 % of device full scale. Up to 100:1 accurate ± 0.02 %.
- AutoTest[™], AutoRange, ready/not ready indicator, set point jog feature, real-time measurement uncertainty display, RS-232 and IEEE-488.2
- Each device comes with an Accredited Calibration Certificate

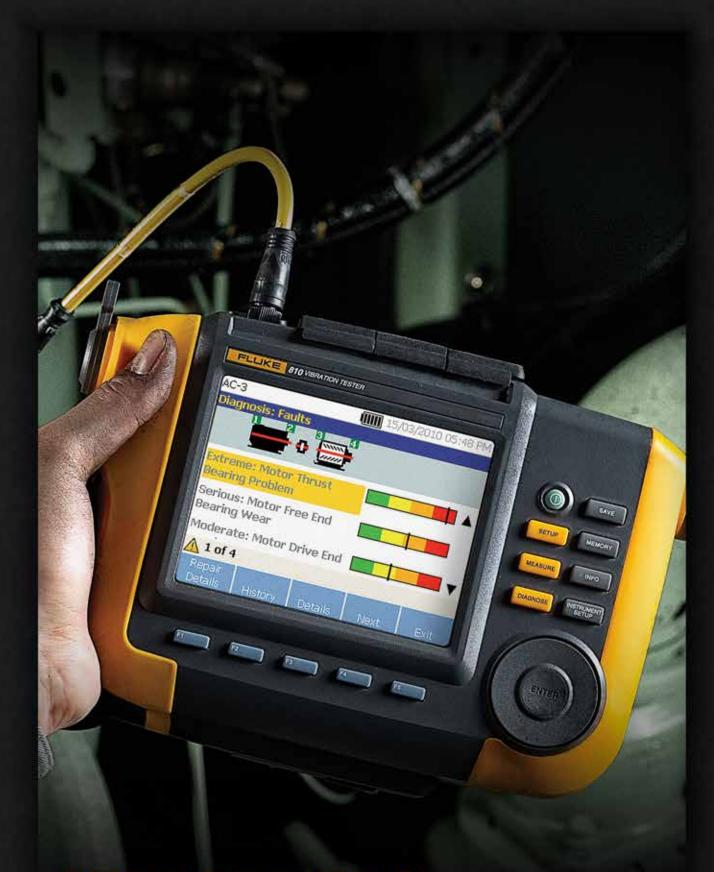
Included Accessories

3130: Ruggedised Case, Rechargeable, NiMH Battery, Test Leads, Operating Manual

6241/6242 PPC4E: Power Line Cords, SPLT Self-Purging Liquid Trap with Connector to PPC4E, Mountable Test Stand, Interconnect and Quick Connect Fitting and Adapters, Operating Manual.

Ordering Information

3130-G2M	Portable Gas Pressure Calibrator
3130-G2M/C	Portable Gas Pressure Calibrator with ACC Calibration
6241-15K	PPC4E Gas Pressure Controller, +/-15 KPA (+/-2.2 PSI)
6241-100K	PPC4E Gas Pressure Controller, +/-100 KPA (+/-15 PSI)
6241-1.4M	PPC4EX Gas Pressure Controller, 1.4 MPA (200 PSI)
6241-7M	PPC4EX Gas Pressure Controller, 7 MPA (1,000 PSI)
6241-14M	PPC4EX Gas Pressure Controller, 14 MPA (2,000 PSI)
6242-100K	PPC4E Gas Pressure Controller, +/-100 KPA (+/-15 PSI), Extended Range
6242-1.4M	PPC4EX Gas Pressure Controller, 1.4 MPA (200 PSI), Extended Range
6242-7M	PPC4EX Gas Pressure Controller, 7 MPA (1000 PSI) Extended Range
6242-14M	PPC4EX Gas Pressure Controller, 14 MPA (200 PSI), Extended Range



VIBRATION & ALIGNMENT

Fluke 810 Vibration Tester

Take a vibration expert along



Fluke 810



Get answers now!

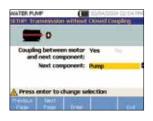
The Fluke 810 Vibration Tester is the most advanced troubleshooting tool for mechanical maintenance teams who need an answer now. It is a unique new kind of troubleshooting tool, engineered to detect and evaluate the most common mechanical problems.

The Fluke 810 Vibration Tester uses a simple step-by-step process to report on machine faults the first time measurements are taken, without prior machine history.

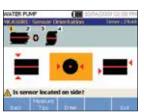
- Easily determine the root cause, location and severity of common mechanical faults
- Efficiently prioritise and plan equipment repair or replacement
- Effectively deploy maintenance resources at the point of greatest impact

Simple 3 Step Process

The Fluke 810 helps you locate and diagnose common mechanical problems and prioritise repair actions in three simple steps:



1. Setup: Vibration testing has never been easier. The Fluke 810 asks for basic machine information you already know, like RPM and horsepower. Its onboard info feature gives you field tips for setting up and taking measurements like a professional.



2. Measure: The Fluke 810 easily fits into your maintenance routine. Use it to quickly troubleshoot problems or monitor machine condition.



3. Diagnose: Fix it right the first time with the press of a button, the Fluke 810 identifies the root cause, its location, and the problem's severity.

Breakthrough Diagnostic Technology

The Fluke 810's diagnostic technology combines powerful algorithms with a database of real-world measurement experience, making this Vibration Tester the most advanced troubleshooting tool for mechanical maintenance teams.

Analyse most common equipment:

Motors, Fans and blowers, Belt and Chain Drives, Gearboxes, Pumps, Compressors, Spindles

Detect the most common causes of mechanical failure:

Bearing problems, Misalignment, Unbalance, Looseness

Viewer PC Software

- · Store and track your data
- Generate diagnostic reports and track the severity of your machine's condition
- Import and store JPEG images



Interactive, self-paced training on DVD

Learn more about the basics of vibration and how to fully utilise the features and functionality of the Fluke 810. Fluke has partnered with Mobius Institute, an industry leader in vibration training, to develop an interactive training DVD included with each Fluke 810.

Specifications

centrifugal pumps, piston pumps, sliding vane pumps, propeller pumps, screw pumps, rotary thread/gear/lobe pumps, piston compressors, centrifugal compressors, screw compressors, closed coupled machines, spindles Standard faults Unbalance, looseness, misalignment and bearing failures Motor rotational speed range 200 rpm to 12000 rpm Diagnosis details Plain-text diagnosis, fault severity (slight, moderate, serious, extreme), repair details, cited peaks, spectra Tester specifications IP rating IP 54 A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer, 100 mV/g (± 5 %, 25 °C)		
centrifugal pumps, piston pumps, sliding vane pumps, propeller pumps, screw pumps, rotary thread/gear/lobe pumps, piston compressors, centrifugal compressors, screw compressors, closed coupled machines, spindles Standard faults Unbalance, looseness, misalignment and bearing failures Motor rotational speed range 200 rpm to 12000 rpm Diagnosis details Plain-text diagnosis, fault severity (slight, moderate, serious, extreme), repair details, cited peaks, spectra Tester specifications IP rating IP 54 A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer, 100 mV/g (± 5 %, 25 °C)	Diagnostic specifications	
Motor rotational speed range 200 rpm to 12000 rpm Plain-text diagnosis, fault severity (slight, moderate, serious, extreme), repair details, cited peaks, spectra Tester specifications IP rating IP 54 A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Analysis for	centrifugal pumps, piston pumps, sliding vane pumps, propeller pumps, screw pumps, rotary thread/gear/lobe pumps, piston compressors, centrifugal compressors, screw compressors, closed coupled machines,
Diagnosis details Plain-text diagnosis, fault severity (slight, moderate, serious, extreme), repair details, cited peaks, spectra Tester specifications IP rating IP 54 A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Standard faults	Unbalance, looseness, misalignment and bearing failures
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A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Tester specifications	
Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer, 100 mV/g (± 5 %, 25 °C) Tachometer specifications	IP rating	IP 54
FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	A/D converter	4 channel, 24 bit
Battery Lithium-ion, rechargeable, 8 hours operating life Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Dynamic range	128 dB
Onboard storage capacity 2 GB internal + user accessible slot for additional storage Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	FFT resolution	800 lines
Warranty Three-years (tester), One-year (sensor and tachometer) Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Battery	Lithium-ion, rechargeable, 8 hours operating life
Sensor specifications Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Onboard storage capacity	2 GB internal + user accessible slot for additional storage
Sensor type Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C) Tachometer specifications	Warranty	Three-years (tester), One-year (sensor and tachometer)
Tachometer specifications	Sensor specifications	
-	Sensor type	Tri-axial accelerometer , 100 mV/g (± 5 %, 25 °C)
Tachometer type Laser Diode Class 2	Tachometer specifications	
	Tachometer type	Laser Diode Class 2

Included Accessories

Tri-axial TEDS Accelerometer,
Accelerometer Magnet Mount,
Accelerometer Mounting Pad Kit
with Adhesive, Accelerometer Quick
Disconnect Cable, Laser Tachometer
and Storage Pouch, Smart Battery
Pack with Cable and Adapters,
Shoulder Strap, Adjustable Hand
Strap, Viewer PC Application
Software, Mini-USB to USB Cable,
Getting Started Guide, Illustrated
Quick Reference Guide, User Manual
CD, Instructional Training DVD, Hard
Carrying Case.

Ordering Information

FLUKE-810 Vibration Tester

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Fluke 805 FC Vibration Meter

Forget the pens. Think METER.





Fluke 805 FC



The Fluke 805 FC is not a vibration pen; it's a meter. A Fluke meter that eliminates the confusion of vibration screening and provides reliable measurements you can trust to make critical go or no-go maintenance decisions. With the Fluke 805 FC, you can identify the strength and severity of vibration and easily track the data over time to monitor an asset's condition.

- Innovative sensor design minimises measurement variations caused by device angle or contact pressure
- Consistent data quality at both low and high frequency ranges
- Four-level severity scale assesses urgency of problems for overall vibration and bearing condition
- Exportable data via USB

- Trending in Microsoft® Excel using pre-built templates
- Overall vibration measurement (10 Hz to 1,000 Hz) for acceleration, velocity and displacement units of measurement for a wide variety of machines
- Crest Factor+ technology provides reliable bearing assessment using direct sensor tip measurements between 4,000 Hz and
- Compare vibration levels with ISO-10816 severity scales and store results to the Fluke Connect Cloud
- Get authorisation to take next steps in an instant if machine health is at risk via Fluke Connect $^{\text{TM}}$ Share-Live $^{\text{TM}}$ video call
- Coloured lighting system (green, red) and on-screen comments indicate how much pressure needs to be applied to take measurements
- Temperature measurement with Spot Infrared Sensor increases diagnostic capabilities
- On-board memory holds and saves up to 3,500 measurements
- Flashlight for viewing measurement locations in dark areas

Specifications

Vibration meter	Low frequency range (overall measurement)	10 Hz to 1,000 Hz
	High frequency range (CF+ measurement)	4,000 Hz to 20,000 Hz
	Severity levels	Good, Satisfactory, Unsatisfactory, Unacceptable
	Vibration limit	50 g peak (100 g peak-peak)
	A/D converter	16-bit
	Signal to noise ratio	80 dB
	Sampling rate	Low frequency: 20,000 Hz; high frequency: 80,000 Hz
	Real time clock backup	Coin battery
Sensor	Sensitivity	100 mV / g ± 10%
	Measurement range	0.01 g to 50 g
	Low frequency range (overall measurement)	10 Hz to 1,000 Hz
	High frequency range (CF+ measurement)	4,000 Hz to 20,000 Hz
	Resolution	0.01 g
	Accuracy	At 100 Hz ± 5 % of measured value
Amplitude units	Acceleration	g, m/sec ²
	Velocity	in/sec, mm/sec
	Displacement	mils, mm
Infrared thermometer	Range	-20 °C to 200 °C
(temperature	Accuracy	±2 ℃
measurement)	Focal length	Fixed, at ~3.8 cm
External sensor (Fluke	Frequency range	10 Hz to 1,000 Hz
supports, but doesn't	Bias voltage (to supply power)	20 V DC to 22 V DC
provide, external sensors)	Bias Current (to supply power)	Maximum 5 mA
Firmware	External interfaces	USB 2.0 (full speed) communication
	Data capacity	Database on internal flash memory
	Memory	Up to 3,500 measurements
Environmental	IP rating	IP54
	Drop test	1 metre
General specifications	Battery type	AA (2) Alkaline or Lithium-ion 2 V DC
	Battery life	250 measurements
	Size (LxWxH) and Weight	25.72 cm x 16.19 cm x 9.84 cm, 1.16 kg
	Connectors	USB mini-B 7-pin, stereo audio output jack (3.5 mm Audio Plug), external sensor jack (SMB connector)

What is Crest Factor+?

Crest Factor (CF) is used to identify bearing faults and is the ratio of the peak value/RMS value of a time domain vibration signal. A key limitation of using Crest Factor is that it does not increase linearly as the bearing degrades. In fact, it can actually decrease as a bearing nears failure due to large RMS values.

To overcome this limitation, Fluke uses a proprietary algorithm known as Crest Factor + (CF+). CF+ values range from 1 to 16. As the bearing condition worsens, the CF+ value increases. Fluke has also included a four-level severity scale that identifies the bearing health as Good, Satisfactory, Unsatisfactory or Unacceptable.



Exporting and trending in Excel

Trending, or repeated vibration measurements kept in a spreadsheet overtime, is the best method to track machine health. With the Fluke 805 FC you can easily:

- · Export your results to Excel
- Trend the readings with the pre-built Excel templates and plot graphs
- Compare the overall vibration readings to ISO Standards (10816-1, 10816-3, 10816-7)

Import measurements from the 805 FC to Excel on your PC in order to trend the bearing parameters: overall vibration, CF+, and temperature. The user can now see a clear picture of the changing bearing condition and deteriorating health of the machine.



Sample trend plot using the Fluke 805 FC trending template.

Included Accessories

USB Cable, Storage Case, Belt Holster, Quick Reference Guide, CD-ROM (includes MS Excel Template and Documentation) and two AA Batteries.

Ordering Information

FLUKE-805FC

Fluke Connect® Vibration Meter

Contact your local distributor for price and availability.

Fluke 820-2 LED Stroboscope





Fluke 820-2



Rugged, easy-to-use, high intensity LED Stroboscope for stop motion diagnostics

The Fluke 820-2 LED Stroboscope is a simple, easy to use tool to stop motion for measurement and diagnostic purposes.

Investigate and observe potential mechanism failure with confidence on a variety of machinery, in a wide range of industries, without making physical contact with the machine. The Fluke 820-2 LED Stroboscope is a rugged, compact, portable strobe with high intensity LED head, ideal for stop motion diagnostics, mechanical troubleshooting, and process or product research and development.

- High intensity 7-LED array-4,800 Lux @ 6,000 FPM/30cm
- High efficiency LED solid-state light source with uniform flash characteristics allow for higher flash rates—30– 300,000 FPM (flashes per minute)
- Digital pulse width modulation for exceptionally sharp images at high speeds
- Rugged, durable design utilises solid-state LEDs with no filaments, gases, hollow cavities, or glass
- Quartz-accuracy control system provides high accuracy—0.02% (± 1 digit)
- Multi-line LCD display
- Check the rotating speed of machinery without physical contact or need for reflective tape
- Advance or retard flash timing for viewing gear teeth, cutting surfaces, repeats, or "drifting" equipment.
- Simple push button operation with 2x and ÷2 buttons for easy adjustment

Specifications

Size (HxWxL) 5.71 cm x 6.09 cm x 19.05 cm	
Temperature	
Operating humidity Non-condensing (<10 °C) 90 % RH (10 °C to 30 °C) 75 % RH (30 °C to 40 °C) 45 % RH (40 °C to 50 °C) Absorption/corrosion 30 °C, 95 % RH, 5 day	
(without ondensation) 90 % RH (10 °C to 30 °C) 75 % RH (30 °C to 40 °C) 45 % RH (40 °C to 50 °C) Absorption/corrosion 30 °C, 95 % RH, 5 day	
Product functions normally	
Operating altitude Operating: 2,000 m, Storage: 12,000 m	
Vibration MIL-PRF-28800F Class 2	
Impact resistance 1 metre drop	

Miscellaneous Specifications Flash Frequency Range 30 to 300,000 FPM 0.5 to 5000 Hz Accuracy 0.02 % Resolution 30 to 999 FPM = 0.1 1000 to 300,000 = 10.5 Hz to 999 Hz = 0.11000 Hz to 5000 Hz = 1FPM or Hz Frequency setting Light Colour Approx 6500 K 4,800 lx @ 6000 FPM at 30 cm Emission output Method External trigger Connector to externally control trigger High level 3 V to 32 V Low level <1 V

Use the 820-2 LED Stroboscope for:

- Turbines that vary in speed and change speed frequently
- Variable Frequency Drive motors that vary in speed, but do not change frequently
- Find belt rotation speed and look for belt slippage
- Find machine element components – fan blades, pump vanes, compressor screws and gear teeth
- RPM measurement and frequency investigation
- Slip measurement



Included Accessories

Protective Case, External Trigger Connector

Ordering Information

FLK-820-2 LED Stroboscope

Contact your local distributor for price and availability. www.fluke.com/au/wtb

Fluke 830 Laser Shaft Alignment Tool

shafts in your facility.







N10140

is critical.

ent technology means reduced errors from backlash resulting in

The ideal test tool to precision-align rotating

The Fluke 830 Laser Shaft Alignment tool is easy-to-use, giving you fast, accurate and actionable answers that will keep your plant up and running. When it comes to laser shaft alignment, data is good but answers are better.

Unlike using the straightedge method or dial indicators the Fluke 830 performs the complicated alignment calculations for you, meaning you'll have the answers you need to quickly align your machine and get your plant up and

An enhanced user interface provides easy to understand results that don't require extensive alignment knowledge and the unique "All-in-One" result screen that shows you both coupling results and feet corrections (vertical and

horizontal) in real terms making it easy to take corrective action. Since machine downtime is costly, test repeatability

- Single laser measurement technology means reduced errors from backlash resulting in better data accuracy
- Intuitive guided user interface quickly and easily complete machine alignments

running fast.

- Compass measurement mode enables flexible, reliable and repeatable measurements
 using an activated electronic inclinometer
- Dynamic machine tolerance check provides continuous evaluation of alignment adjustments so you know when your machine in acceptable range
- Unique extend mode handles gross misalignment by virtually increasing laser detector size
- Data protection ensures your data is there when you need it with auto save and resume
 capability

Specifications

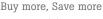
Computer	
CPU	Intel XScale PXA270 running at 312 MHz
Memory	64 MB RAM, 64 MB flash
Display	Type: TFT, transmissive (sunlight-readable), 65,535 colours, backlit LED Integrated light sensor for automated adjustment of the brightness to the display according to the lighting conditions which extends battery life Resolution: 320 x 240 pixel; Dimensions: 89 mm diagonal Keyboard elements: Setup, measure, diagnose, menu, clear, enter, back keys, navigation cursor cross, alphanumeric keyboard and on/off button
LED indicators	Multicolour LED for laser status and alignment condition
External interface	USB host and USB device (slave) Integrated wireless communication, transmitting power 100 mW RS232 (serial) for sensor AC adapter/charger socket
Environmental protection	IP 65 (dustproof and water spray resistant), shockproof Relative humidity 10 % to 90 %
Temperature	Operating temp: -10 °C to 50 °C, Storage temp: -20 °C to 60 °C
Dimensions and Weight	220 mm x 165 mm x 45 mm, 742g
Sensor	
Measurement principle	Coaxial, reflected laser beam
Environmental protection	IP 67 (submersible, dustproof)
Ambient light protection	Yes
Temperature	Storage: -20 °C to 80 °C, Operating: 0 °C to 55 °C
Dimensions	107 mm x 70 mm x 49 mm
Weight	177 g
Laser	Type: Ga-Al-As semiconductor laser Wavelength (typical) 675 nm (red, visible) Safety class: Class 2, FDA 21 CFR 1000 and 1040 Beam power: < 1 mW Safety precautions: Do not look into laser beam

Recommended Accessories



FLUKE-830/MAGNET Compact magnetic sensor/ prism mounting bracket

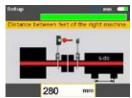
Recommended Kits





Fluke 830/SHIMS Precision Alignment Kit

Evaluate Alignment in 3 Simple Steps



1. Set-up



2. Measure

Diagnose Current r	neasurem	ent	Adju	stment
Vertical			4	-
Gap	-0.01	-	1	A 16
Offset	-0.16		+0.10	+0.04
Horizon	tal 📮			-
Gap	-0.00	*	-4'	
Offset	+0.07	+	-0.09	-0.11

3. Diagnose

Included Accessories

Laser Sensor, Laser Prism, Chaintype Mounting Bracket with 150 mm Support Posts (2x), 300 mm Support Post (4x), Micro-fiber Cleaning Cloth, Sensor Cable, PC Cable, USB Drive, USB Cable, Tape Measure, Wireless Bluetooth Module, Power Adapter, Instruction Kit and Carrying Case.

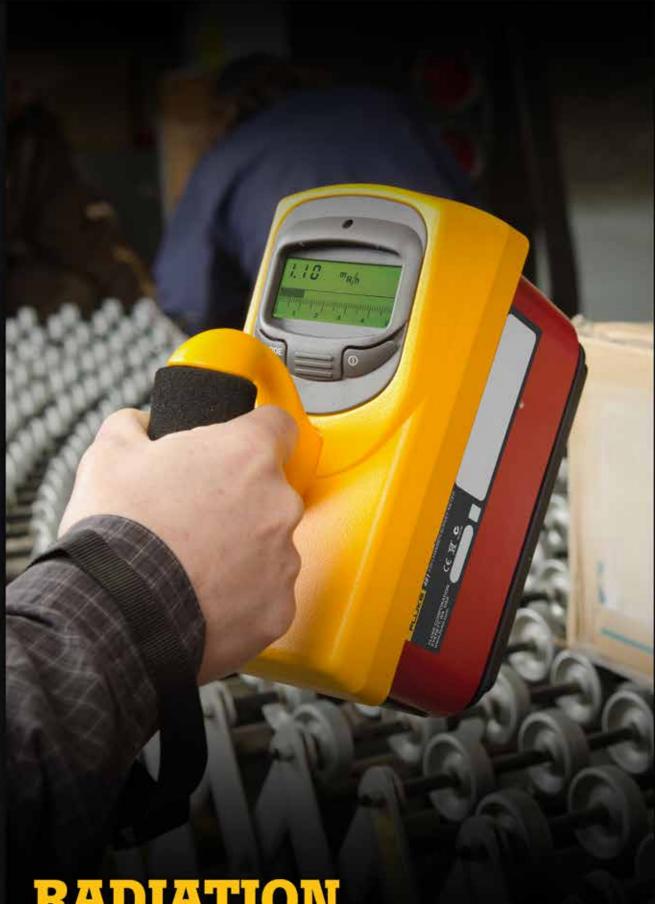
Ordering Information

FLK-830 Laser Shaft

Alignment Tool

FLUKE-830 /SHIMS Laser Alignment Tool Kit

Contact your local distributor for price and availability. www.fluke.com/au/wtb



RADIATION

Fluke 481 Radiation Detection Meter



Fluke 481-DESI



The Fluke 481 Radiation Detection Meter is a portable and practical means for discovering irradiated goods, and for helping remediate contaminant and safety issues while minimally affecting performances. Ideal for detecting irradiated goods, equipment, surfaces or environments in industrial settings, the 481 Radiation Meter helps ascertain worker safety and compliance to national regulations.

- Detects skin-dose (beta particle) and deep-dose (gamma) and X-ray radioactivity
- Requires no adjustments; simple two button process
- Provides promptly read, correct value through autoranging capability
- Easily visible inside truck trailers and other lowlight situations with automated backlight
- Works dependably inside or outside thanks to sealed case
- 30 % more precise than other available meters
- Delivers more than one week of uninterrupted functioning with two 9-volt alkaline batteries
- Proven in use by state and local governmental emergency response professionals, state inspectors, HAZMAT teams and nuclear power workers
- · Measures both dose and dose-rate
- Valuable for contamination-detection, general radiation area metering, radiation-level monitoring, and hazardous materials assessment
- Rugged Fluke design

Specifications

Radiation detected	Beta > 100 keV, Gamma > 7 keV
Operating ranges	0 μSv/h to 50 μSv/h (8 sec), 0 μSv/h to 500 μSv/h (2,5 sec) 0 mSv/h to 5 mSv/h (2 sec), 0 mSv/h to 50 mSv/h (2 sec) 0 mSv/h to 500 mSv/h (2 sec)
Accuracy	Within 10 % of readings between 10 % and 100 % of full scale indication on any range, exclusive of energy response
Detector	Chamber (cc volume air ionisation) 349 cc, Chamber wall (phenolic) 246 mg/cm², Chamber window (mylar) 6.6 mg/cm², Beta slide 440 mg/cm²
Automatic features	Auto-zeroing, auto-ranging, and auto-backlight
Power requirements	Two 9 V alkaline, 200 hours operation
Warm-up time	One minute
Battery life	4+ hours continuous use per battery pack, (assumes 50 % brightness of LCD)
Dimensions (W x D x H)	10 cm x 20 cm x 15 cm
Weight	1.11 kg
Display LCD analogue/dig	ital with backlight
Analogue	100 element bar graph $6.4\ cm$ long. Bar graph is divided into 5 major segments, each labeled with the appropriate value for the range of the instrument
Digital	2.5 digit display is followed by a significant zero digit depending on the operating range of the instrument. The units of measurement are indicated on the display at all times. Digits are 6.4 mm high. Low battery and freeze indicators are also provided on the display
Modes	
Integrate mode	Operates continuously 30 seconds after the instrument has been turned on. Integration is performed even if the instrument is displaying in mR/h or R/h
Freeze mode	Will place a tick mark on the bar graph display to hold on the peak displayed value. The unit will continue to read and display current radiation values
Environmental	
Temperature range	-20 °C to 50 °C
Relative humidity	0 % to 100 % (at 50 °C)
Geotropism	< 1 %

Recommended Accessories



190HPS Single Unit Carrying Case

Fluke 481 Applications





Ordering Information

FLK-481-DESI

DESI Radiation Detection Survey Meter

Contact your local distributor for price and availability. www.fluke.com/au/wtb



INTRINSICALLY SAFE

Intrinsically Safe Test Tools for Hazardous Areas

Calibrators, Thermometers and Multimeters designed to intrinsic safety standards.

Intrinsically Safe is a protection method employed in potentially explosive atmospheres. Certificate IS tools are designed to prevent the release of sufficient energy to cause ignition of flammable material. IS standards apply to all equipment that can create one or more of a range of defined potential explosion sources.



ATEX - The primary intrinsically safe standard, which has been set in the European Union with the Directive 94/9/EC, commonly called ATEX (ATmosphères Explosibles).



Fluke 28 IIEx **Intrinsically Safe True-**RMS Digital Multimeter

Now there's one intrinsically safe digital multimeter (DMM) you can use in IIC (gas) Zone 1 and 2 and IIIC (dust) Zone 21 and 22 areas.

• CAT III 1000V/CAT IV 600V electrical safety rating



😥 II 2 G Ex ia IIC T4

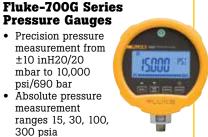


Fluke 568Ex **Intrinsically Safe** Infrared thermometer

With a rugged, easy-to-use, ergonomic design, the Fluke 568Ex meets intrinsically safe certifications in Class I Div 1 and Div 2 or Zone 1 and 2 hazardous environments from recognised safety agencies around the world.



II 2 G Ex ia IIC T4



- 300 psia Accuracy to 0.05 % of full scale
- Reference class gauge accuracies to 0.04 % of reading
- CSA; Class 1, Div 2, Groups A-D rating
- Log up to 8,493 pressure measurements to memory (requires 700G/TRACK software)
- Three-year warranty

Precision pressure

measurement from

ranges 15, 30, 100,

±10 inH20/20

mbar to 10,000 psi/690 bar Absolute pressure measurement



II 3 G Ex IIB T6

For more information, see page 117.



Fluke 707Ex Intrinsically Safe Loop Calibrator

The Fluke 707Ex is the ideal, stand alone tool for calibration and maintenance of 4-20 mA control loops. It provides 24V loop power while measuring mA, and lets you measure and source/stimulate mA with 1 µA resolution



II 2 G Ex ia IIC T4



Fluke 718Ex **Intrinsically Safe Pressure Calibrator**

The Fluke 718Ex offers a convenient, self contained solution for pressure measurements and calibration. With its internal pressure sensor and pump, it's ready for immediate, stand alone use.



II 1 G Ex ia IIC T4



C

Fluke 721Ex Intrinsically **Safe Precision Pressure** Calibrator

The 721Ex Precision Pressure Calibrator with dual isolated pressure sensors is the ideal tool for gas custody transfer applications allowing you to take simultaneous static and differential pressure measurements with a single



Ex ia IIB T3 Gb



Fluke 725Ex Intrinsically **Safe Multifunction Process Calibrator**

The Fluke 725Ex when combined with the Fluke 700PEx Pressure Modules, the 725Ex is able to calibrate almost any process instrument likely to need service in any area where explosive gases may be present.



🤂 II 1 G Ex ia IIB 171 °C



Fluke Calibration 155X Stik Thermometer

The 1551A/1552A "Stik" Thermometer is a digital substitute for your mercuryin-glass thermometers. Accurate and repeatable to ± 0.05 °C over its full range, the 1551A/1552A is the new gold standard of industrial temperature calibration.





ATEX/IECEX Zone 1 and 2



Fluke 700PEx **Intrinsically Safe Pressure Modules**

These intrinsically safe pressure modules for use with the Fluke 725Ex and Fluke 718Ex cover the most commonly used pressure calibration ranges from 0-25 mbar and 0-200 bar. There's a choice of 8 gage, differential and absolute modules.



II 1 G Ex ia IIC T4

Ordering Information

FLUKE-28IIEX/AU Intrinsically Safe True-RMS Digital

Multimeter

FLUKE-568EX Intrinsically Safe

Infrared Thermometer

FLUKE-707EX **Intrinsically Safe**

Loop Calibrator

FLUKE-718EX Intrinsically Safe

Pressure Calibrator 30,100,300G ranges

FLUKE-721EX Intrinsically Safe Pressure Calibrator

FLUKE-725EX Intrinsically Safe

Multifunction **Process Calibrator**

FLUKE-700PEX Intrinsically Safe Pressure Modules (700P: 01, 5, 6, 9, 24, 27, 29, A2Ex)

FLUKE-1551/2A "Stik" Thermometer

1551A: -50 to 160C 1552A: -80 to 300C

to 10,000psi

FLUKE-700G Pressure Test Gauges (23 ranges) 0 to 10 in H20 up

Contact your local distributor for

price and availability. www.fluke.com/au/wtb

Fluke Connect® Module Kits





Fluke 3000 FC General **Maintenance System**

- Fluke 3000 FC Series Wireless Multimeter

- Fluke v3000 Voltage Module
 Fluke v3001 Voltage Module
 Fluke a3001 FC Wireless iFlex AC **Current Module**

- TL224, TL222, TL175 Test Leads
 AC285, AC220, AC175 Alligator Clips
 iFlex i2500-10 Flexible Current Probe
- Magnetic Hanging Strap
 Fluke Connect® Wireless PC Adapter
- Modular 3-Compartment Soft Carry Case



Fluke 3000 FC Industrial System

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3001 FC Wireless iFlex AC Current Module (3)
- Fluke v3000 Voltage Module
- TL224 Test LeadsTL175 Test Leads
- AC285 Alligator Clips
- AC175 Alligator Clips
- iFlex i2500-10 Flexible Current Probe (3)
- Magnetic Hanging Strap
 Fluke Connect® Wireless PC Adapter
 Modular 3-Compartment Soft Carry Case



Fluke 3000 FC HVAC System

- Fluke 3000 FC Series Wireless Multimeter Fluke a3000 FC Wireless AC Current
- Clamp Module
 Fluke t3000 Thermocouple Thermometer
- TL175 Test Leads
- AC175 Alligator Clips

- 80PK-1 K-Type Bead Thermocouple
 Magnetic Hanging Strap
 Fluke Connect* Wireless PC Adapter
- Modular 3-Compartment Soft Carry Case



Fluke FC Wireless a3000 **Current Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3000 FC Wireless AC Current
- Clamp Module
 TL175 Test Leads
- AC175 Alligator Clips
- Modular 3-Compartment Soft Carry



Fluke FC Wireless a3001 **Current Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3001 FC Wireless iFlex AC Current Module
 TL175 Test Leads

- AC175 Alligator Clips
 iFlex i2500-10 Flexible Current Probe
- Modular 3-Compartment Soft Carry



Fluke Wireless t3000 FC **Temperature Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke t3000 K-Type Thermocouple Thermometer
- TL175 Test Leads
- AC175 Alligator Clips
- 80PK-1 K-Type Bead Thermocouple
- Other K-Type Temperature Probes also available
- Magnetic Hanging Strap
- Modular 3-Compartment Soft Carry Case



Fluke Wireless v3000 FC AC **Voltage Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke v3000 AC Voltage Module
 TL175 Test Leads
 TL224 Test Leads
 AC175 Alligator Clips

- AC285 Alligator Clips
- Magnetic Hanging Strap
- Modular 3-Compartment Soft Carry Case



Fluke Wireless v3001 FC DC **Voltage Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke v3001 DC Voltage Module
- TL175 Test Leads
- TL222 Test LeadsAC175 Alligator Clips
- AC220 Alligator Clips
- Magnetic Hanging Strap
- Modular 3-Compartment Soft Carry Case



Fluke Wireless v3003 FC AC-DC **Voltage Measurement Kit**

- Fluke 3000 FC Series Wireless
- Multimeter
- Fluke v3000 AC Voltage Module
 Fluke v3001 DC Voltage Module
 TL175 Test Leads
- TL222 Test Leads
- TL224 Test Leads
- AC175 Alligator Clips AC285 Alligator Clips
- AC220 Alligator Clips Magnetic Hanging Straps
- Modular 3-Compartment Soft Carry Case

Multimeter Kits





Fluke 287 FlukeView® **Forms Combo Kit**

- Fluke 287 True-RMS Electronics Logging Multimeter
- FlukeView[®] Forms Software and
- 80BK-A Thermocouple Probe
- TL224 Test Leads with Model 175 Modular Probe Tips
- AC175 Alligator Clips
 TL71 Probe Caps
- · C280 Soft Case



Fluke 287 FlukeView® Forms Combo Kit with ir3000FC Connector

- Fluke 287 True-RMS Electronics Logging Multimeter
- Fluke ir3000 FC Connector
- FlukeView® Forms Software and Cable
- 80BK-A Thermocouple Probe
- TL224 Test Leads with 175 Modular Probe Tips
 - AC175 Alligator Clips
 - TL71 Probe Caps
- · C280 Soft Case
- · Amp Jack Plug Set



Fluke 289 FlukeView® Forms Combo Kit

- · Fluke 289 True-RMS Industrial Logging Multimeter
- FlukeView® Forms Software with
- 80BK-A Thermocouple Probe • TL71 Silicone Test Lead Set
- AC175 Alligator Clips
- TPAK Magnetic Hanging Kit
 C280 Soft Case



Fluke 289 FlukeView® **Forms Combo Kit with** ir3000FC Connector

- Fluke 289 True-RMS Industrial Logging Multimeter
- Fluke ir3000 FC Connector
- FlukeView® Forms Software with Cable
- 80BK-A Thermocouple Probe
- TL71 Silicone Test Lead Set
- AC175 Alligator Clips • TL71 Probe Caps
- C280 Soft Case
- · Amp Jack Plug Set



Fluke 3000 FC/1AC-II **Wireless Multimeter and Non-Contact Voltage Detector Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke 1AC-II VoltAlert™
- TL224 Test Leads
- TP175 Industrial Test Probes
- AC220 Alligator Clips
- · C35 Lightweight Soft Carrying
- TPAK Magnetic Hanging Kit



Fluke 3000 FC/TPAK **Wireless Multimeter and Magnetic Hanger Combo** Kit

- Fluke 3000 FC Series Wireless
- Multimeter
 TL75 Test Leads
- C35 Lightweight Soft Carrying
- TPAK Magnetic Hanging Kit



Fluke 87V/E2 Industrial **Electrician Combo Kit**

- Fluke 87V True-RMS Industrial Multimeter
- TL224 Silicone Test Leads
- · AC220 Alligator Clips
- TP238 Test Probes • TPAK Magnetic Hanging Kit
- 80BK-A Thermocouple Probe
- · C35 Soft Meter Case



Fluke 88V/A Automotive **Multimeter Combo Kit**

- Fluke 88V Deluxe Automotive Multimeter
- TL224 Test LeadsAC285 Alligator ClipsTP220 Test Probes
- RPM 80 Inductive RPM
- TPAK Magnetic Hanging Kit • 80BK-A Thermocouple Probe
- C800 Carrying Case
- Holster
- CD With Detailed Manual
- 2 Automotive Back Probe Pins
- Insulation Piercing Probe



Fluke 116/323 HVAC Combo Kit

- Fluke 116 HVAC Multimeter
- Fluke 323 Clamp Meter
- TL175 Test Lead Set
- TPAK Magnetic Hanging Kit

- Thermocouple
- C115 Deluxe Soft Carrying Case with Shoulder Strap



Fluke 116/62 MAX+ HVAC **Technician's Combo Kit**

- Fluke 116 HVAC Multimeter
- Fluke 62 MAX+ Infrared Thermometer
- TL175 Test Lead Set
- TPAK Magnetic Hanging Kit
- 80BK-A Thermocouple Probe • 80AK-A Thermocouple Adapter
- Flexible Cuff Pipe Clamp



Fluke 117/323 **Electricians' Multimeter Combo Kit**

- Fluke 117 True-RMS Multimeter
- Fluke 323 Clamp Meter
- TL175 Test Lead Set
- TPAK Magnetic Hanging Kit
- · C115 Deluxe Carrying Case

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Insulation Testers/Earth Ground Testers Kits



Fluke 1587/i400 **Current Clamp FC Kit**

- Fluke 1587 FC 2-in-1 Insulation Digital Multimeter
 Fluke i400 Current Clamp
- Remote probe
- Test leads
- Alligator clips
 K-type thermocouple
 Hard Case



Fluke 1587 FC **Advanced Electrical** Troubleshooting Kit

- Fluke 1587 FC 2-in-1 Insulation Digital Multimeter
- Fluke i400 Current Clamp
- Fluke 62 MAX+ Infrared Thermometer
- · Remote probe
- Test leads
- Alligator clipsK-type thermocoupleHard Case



Fluke 1587/MDT FC **Advanced Motor and Drive Troubleshooting** Kit

- Fluke 1587 FC 2-in-1 Insulation Digital Multimeter
- Fluke i400 Current Clamp • Fluke 9040 Phase Rotation
- Indicator
- · Remote probe Test leads
- Alligator clips
- K-type thermocouple
 Hard Case



Fluke 1550C 5 kV **Insulation Tester Kit**

- Fluke 1550C Insulation
- Resistance Tester
- Fluke IP67 Hard Case
- Test Leads with Alligator Clips (red, black, green)
- Heavy Duty Alligator Clips
 FlukeView® Forms Basic CD
- · Infrared Adapter with Interface Cable
- · AC Power Cord



Fluke 1555 10 kV **Insulation Tester Kit**

- · Fluke 1555 Insulation Resistance Tester
- Fluke IP67 Hard Case
- Test Leads with Alligator Clips (red, black, green)
- Heavy Duty Alligator Clips
 FlukeView® Forms Basic CD
- · Infrared Adapter with Interface Cable
- · AC Power Cord



Fluke 1621 Basic **Earth Ground Tester**

- Fluke 1621 Earth Ground Tester • Two Cable Reels with wire
- (1-50 m, 1-25 m) 3 Earth Ground Stakes
- 1 Test Lead
- (red and black 2 m)
- 2 Alligator Clips
- · Hard Carrying Case



Fluke 1623-2 GEO Earth **Ground Tester Kit**

- · Fluke 1623-2 GEO Earth **Ground Tester**
- · User Manual
- Batteries
- · Quick Reference Guide
- USB Cable
- 2 Clamps
- C1620 Carrying Case
- 4 Earth Ground Stakes3 Cable Reels



Fluke 1625-2 GEO Earth **Ground Tester Kit**

- Fluke 1625-2 GEO Earth Ground TesterUser Manual
- Batteries
- Quick Reference Guide
- USB Cable

- 2 Clamps
 C1620 Carrying Case
 4 Earth Ground Stakes
- 3 Cable Reels

Electrical Tester Kits



Fluke T5-600/62 MAX+ /1AC-II Infrared **Thermometer and Electrical Tester Kit**

- Thermometer



Fluke T5-H5-1AC-II

- Fluke T5-1000 Electrical Tester
- Fluke 1AC-II VoltAlert™ Non

- Fluke 62 MAX+ Infrared
- Fluke 1AC-II VoltAlert™ Non Contact Voltage Tester • C115 Soft Meter Case

Electrical Tester Kit

- Contact Voltage Tester
- H5 Holster

Process Calibration Tool Kits





Fluke-700PTPK Pneumatic **Test Pump Kit**

- Pneumatic Hand Pump
- · Hose Kit (1) and Adapters
- · Hard Case



Fluke-700HTPK Hydraulic **Test Pump Kit**

- Hydraulic Hand Pump
- · Hose Kit (1) and Adapters
- · Hard Case



Fluke-700PTPK2 Premium **Pneumatic Test Pump Kit**

- Pneumatic Hand Pump
- Premium, no tools required Gauge Connector
 - Premium Transmitter Test Hose
- Kit (1) and Adapters
- · Hard Case



Fluke-700HTPK2 **Premium Hydraulic Test Pump Kit**

- · Hydraulic Hand Pump
- · Premium, no tools required Gauge Connector
- Premium Transmitter Test Hose Kit (1) and Adapters
- Hard Case



Fluke Connect® 789 ProcessMeter™ and **Temperature Kit**

- Fluke 789 ProcessMeter™
- Fluke t3000 FC Wireless K-Type Temperature Module
- Fluke ir3000 FC Connector
- TL71 Premium Test Lead Set
- AC72 Alligator Clips
 4 AA Alkaline Batteries (installed)
- User Manual
- · Quick Reference Guide

Infrared Thermometer Kits



Fluke 62 MAX+/323/1AC Infrared Thermometer, **Clamp Meter & Voltage Kit**

- Fluke 116 HVAC Multimeter
- Fluke 62 MAX+ Infrared Thermometer
- Fluke 323 Clamp Meter
- 80BK-A Thermocouple Probe
- 80AK-A Thermocouple Adapter
- Flexible Cuff Pipe Clamp Thermocouple
- TPAK Magnetic Hanging Kit C115 Soft Meter Case



Fluke 414D/62MAX+ Laser **Distance Meter/Infrared Thermometer Combo Kit**

- Fluke 414D Laser Distance Meter
- Fluke 62 MAX+ Infrared Thermometer
- · Soft Case for each model



Fluke VT04 Visual Infrared Thermometer Maintenance Combo Kit

- Fluke VTO4 Visual Infrared
- Thermometer
 Fluke 1507 Insulation Resistance



Fluke VT04 Visual **Infrared Thermometer HVAC Combo Kit**

- Fluke VTO4 Visual Infrared
- Thermometer
 Fluke 902 True-RMS HVAC Clamp Meter
- Fluke 116 HVAC Multimeter



Fluke VT04 Visual **Infrared Thermometer Electrical Combo Kit**

- Fluke VTO4 Visual Infrared Thermometer
- Fluke 376 AC/DC True-RMS Clamp Meter with 18-inch iFlex™
- Fluke 117 Electricians' Multimeter

Indoor Air Quality Kits



Fluke 922 Airflow Meter/ **Micromanometer Kit**

- Fluke 922 Airflow Meter
- 12 inch Pitot Tube • Two Rubber Hoses
- TPAK Magnetic Strip
- TPAK Strap, 9 inches
 TPAK Latch Tab
- User Manual
- · Hard Carrying Case



Fluke 975V AirMeter™ **Calibration Kit with Velocity Probe**

- Fluke 975 AirMeter™
- Calibration Cap
- Air Velocity Probe
 FlukeView® Forms Software
- · Power Adapter
- · International Power Plugs
- Hard Carrying Case



Fluke Test Leads, Probes & Clips

Electronic Test Leads

TL910 Electronic Test Lead Set

- Very small 1 mm tips to access hard to reach test points
- · Probe tip length up to 100 mm, test lead length: 1 m
- · Included: 3 sets of spring loaded gold tips and 2 sets of stainless steel tips
- CAT II 1000 V, 3 A rating

TP912 Replacement Tips for

- Replacement tips for TL910
- · Five sets of gold plated and stainless steel tips

Fluke TL26a 5-Way Test Lead Set

1.5m, silicone-insulated leads. Rated for 30V, 8A One red, one black.

5 ways to connect:

- 1. U-shaped nose for blade-shaped terminals
- 2. Notched jaw for gripping screw heads, bare wire or terminals
- 3. Serrated teeth for gripping threaded or wire-wrapped terminals
- 4. Cluster of sharp needles for piercing small gauge (#22-#28 AWG) wires
- 5. Large piercing needle for penetrating larger gauge wires

TL40 Retractable Tip Test Lead Set

- · One pair (red, black) of test leads with sharp needle point tips adjustable to desired length from 0 to 76mm
- Flexible silicone insulated test leads
- · CAT II 600 V, 3 A rating

TL960 Micro-Hook Test Lead Set

- 1 pair (red, black) of test leads with multi-stacking 4mm banana plugs and micro-hooks
- 90cm long PVC insulated leads
- 30 V RMS or 60 V DC, 15 A

TL950 Mini-Pincer Test Lead Set

- 1 pair (red, black) of test leads with multi-stacking 4 mm banana plugs and minipincers
- · Mini-pincers open to 2.3mm
- 90cm long PVC insulated leads
- 30 V RMS or 60 V DC, 5 A

TL940 Mini-Hook Test Lead Set

- · 1 pair (red, black) of test leads with multi-stacking 4 mm banana plugs and minihooks
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 5 A

Patch Cords

TL930 Patch Cord Set (60 cm)

- · 1 pair (red, black) multi-stacking 4 mm banana plug patch cords
- · Nickel-plated banana plugs
- 60 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 15 A

TL932 Patch Cord Set (90 cm)

- 1 pair (red, black) multi-stacking 4 mm banana plug patch cords
- Nickel-plated banana plugs
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC. 15 A

TL935 Patch Cord Kit (60, 90, 120 cm)

- 3 sets (red and black pairs) of multi-stacking 4 mm banana plug patch cords
- Nickel-plated banana plugs
- 60 cm, 90 cm, 120 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 15 A

Electronic Kits

TL80A-1 Basic Electronic Test Lead Kit

- · One pair (red, black) each 1 metre long silicone test lead set, alligator clip and probe tip extender.
- C75 soft carrying case

TP920 Test Probe Adapter Kit

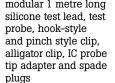
- Set of push-on adapters for TL71 and TL75 test probes
- IC test adapters, extended probe tips, medium alligator clips (max. opening 7.6 mm)
- CAT III 300 V, 5 A rating

TL970 Hook and Pincer Kit

- TL940 Mini-Hook Test Lead Set
- TL950 Mini-Pincer Test Lead
- TL960 Micro-Hook Test Lead

TL81A Deluxe Electronic Test Lead Kit

 Includes components of TL80A-1, plus one pair (red, black) each modular 1 metre long probe, hook-style and pinch style clip,



· Quadfold soft carrying case

TLK287 Electronic Master Test Lead Kit

- Includes modular leads, probes (black and red), minigrabber/ jack set, medium alligator clips (black and red), spade lug/banana jack plated (set), couplers IEC1010 (black and red), micrograbbers and -leads (black and red)
- TL910 Electronic Test Lead Set
- CAT III 1000 V (probes only)

BP980 Double Banana Plug Kit

- 5 pair (red, black) of double
- 4 mm banana plugs
- Each plug has 3.1 mm holes for mounting wires and components
- Brass plugs/jack, beryllium copper springs
- 30 V RMS or 60 V DC, 15 A

Industrial Test Leads

TL71 Premium Test Lead Set

- One pair (red, black) comfort grip probes with silicone insulated, right-angle test leads
- Recommended for µV measurements
- CAT II 1000 V. 10 A rating
- CAT III 1000 V, CAT IV 600 V with protective cap

TL75 Hard Point™ Test Lead Set

- · One pair (red, black) comfort grip probes with 48 inches PVC insulated, test leads with right-angle shrouded banana plugs
- Recommended for general purpose measurements
- CAT II 1000 V. 10 A rating
- CAT III 1000 V, CAT IV 600 V only with protective cap

TL76 All-in-one Test Lead Set

- One pair (red, black) 1.5 metre long silicone test leads with right angle shrouded banana plug
- Lantern tip (removable) for use with European wall sockets (4 mm Ø)
- Lantern tip can be removed for easy access to terminal blocks (2 mm Ø)
- · Removable, insulated IC caps allow robing on closely spaced leads and compliance with GS38
- CAT II 1000 V, 10 A rating
- CAT III 1000 V, CAT IV 600 V only with protective cap



Fluke Test Leads, Probes & Clips





Modular Test Leads

TL221 SureGrip™ **Extension Lead Set**

- One pair (red, black) of silicone insulated leads with straight connectors on both ends
- · Reinforced strain relief
- Includes one pair (red, black) of female couplers
- Extends test leads by 1.5 m
- 600 V CAT IV, 1000 V CAT III, 10 A rating.

TL222 SureGrip™ Silicone Test Lead Set

- · DMM test leads (red, black) with safety shrouded, standard diameter banana
- · Right angle connector on both ends
- · Reinforced strain relief
- 1.5 metre silicone-insulated wire resists heat & cold
- CAT IV 600 V, CAT III 1000 V, 10 A rating.

TL224 SureGrip™ Silicone Test Lead Set

- DMM test leads (red, black) with safety shrouded, standard diameter banana plugs
- · Right angle connector on one end and straight connector on the other
- · Reinforced strain relief
- 1.5 metre silicone-insulated wire resists heat & cold
- CAT IV 600 V, CAT III 1000 V, 10 A rating.

TL27 Heavy Duty Test Lead Set

- DMM test leads (red. black) with safety shrouded, standard diameter banana plugs
- Heavy duty EPDM insulation
- · Length 1.5 metre
- CAT III 1000V, 10A rating.

H900 Test Lead Holder

- · Heavy duty construction with mounting holes
- · Holder has 10 slots for wires up to 8 mm in diameter
- · Over-all dimensions: 27.9 cm L x 8.9 cm W x 3.2 cm H

Industrial Kits

TL220 SureGrip™ **Industrial Test Lead Kit**

- AC220 SureGrip[™] Alligator Clip Set
- TP220 SureGrip™ Industrial Test Probe
- TL224 SureGrip[™] Silicone Test Lead Set (straight to right)
- CAT II 1000 V, 10 A (TP220 only)
- CAT III 1000 V, CAT IV 600 V with protective cap

TL223-1 SureGrip™ Electrical **Test Lead Kit**

- AC220 SureGrip™ Alligator Clip Set
- TP238 SureGrip™ Insulated Test Probe Set
- TL224 SureGrip™ Silicone Test Lead Set (straight to right)



TL238 SureGrip™ High Energy **Test Lead Kit**

 TP238 SureGrip™ Insulated Tip Test Probes with less than 4 mm of exposed metal (GS38) with flexible removable finger



- TP280 20 cm Test Probe Extenders
- TL224 SureGrip™ Silicone Test Lead Set

TLK-220 SureGrip™ Accessory Kit

- · AC220 SureGrip Alligator Clip Set
- AC285 SureGrip Large Jaw Alligator Clip Set
- TP220 SureGrip Industrial Test Probes
- TL224 SureGrip Silicone Test Lead Set
- · Large zippered soft case with moveable divider

TLK-225-1 SureGrip™ Master

Accessory Kit

- AC220 SureGrip™ Alligator Clip Set
- AC280 SureGrip Hook Clip Set
- AC283 SureGrip Pincer Clip Set
- AC285 SureGrip Large Jaw Alligator Clip Set
- TP238 SureGrip Insulated Test Probe Set
- TL224 SureGrip Silicone Test Lead Set
- 6-Pocket Storage Pouch

TLK289 Industrial Master Test Lead Kit

- · C116, Soft Case
- AC220 Alligator Clip Set
- AC280 Hook Clip Set
- · AC285 Large Jaw Alligator Clip Set
- TP220 SureGrip **Industrial Test Probes**
- TL224 Test Lead Set
- TPAK Hanging Kit
- 80BK-A Temperature Thermocouple

T5-KIT-1 Accessory Kit (for use with T5)

- · Add-on probes and carrying case.
- TP238 SureGrip[™] Insulated Test Probe Set
- AC285 SureGrip™ Large Jaw Alligator Clip Set
- C33 Soft Meter Case



L215 SureGrip™ Kit with Probe Light and Extender

- · L200 Probe Light
- TP280 20 cm Test **Probe Extenders**
- TP220 SureGrip
- **Test Probes**
- TL224 SureGrip Silicon Test Lead Set
- Foldable soft pouch with six pockets and hook-and-loop

Modular Test Probes

(for use with Modular Test Leads)

TP220 SureGrip™ Test **Probe Set**

- One pair (red, black) of Industrial test probes
- Sharp, 12 mm stainless steel tip provides reliable contact
- Flexible finger barrier improves grip
- · Recommended for use with TL222 and TL224 test leads
- CAT II 1000 V, 10 A rating

TP74 Lantern Tip Test Probe Set

- · One pair (red, black)
- · Tips include banana-style spring contacts with nickel-plated brass
- CAT II 1000 V, 10 A rating
- CAT III 1000 V rating only with protective cap

TLK290 Flexible Socket Probe Set

- · Kit includes three flexible socket probes and a large alligator clip
- · To be used on three phase sockets.
- Probes have flexible width test points that fit securely in 4 to 8 mm sockets.
- · Test probe set to be used on motor and three phase sockets
- Safe contact e.g. in CEE 16 A and CEE 32 A plugs
- CAT III 1000 V / CAT IV 600 V, 8 A

TP1, TP2, TP4, TP38, **SlimReach Test Probe** Sets

- One pair (red, black) of slender probes for closely spaced or recessed terminals
- TP1: has a flat blade
- TP2: has 2mm diameter tip
- TP4: has 4mm diameter
- TP38: has stainless steel Insulated probe tip
- TP1/TP2/TP4: CAT II 1000V **TP38:** CAT IV 600V / CAT II 1000V 10A rating







Fluke Test Leads, Probes & Clips



(for use with Modular Test Leads)

TP80 Electronic Test Probe Set

Recommended for use with TL222 and TL224 $\,$

- One pair (red, black)
- IC insulated cap prevents shortening of IC legs for probing high density components or boards
- · CAT III 1000 V, 10 A rating.

TLK291 Fused Test Probe Set

- One pair (red, black) fused test probes
- Designed to meet GS38 specs for United Kingdom
- CAT III 1000V, 0.5A
- Fuse rating: 500 mA/1000 V/FF/50 kA

FTP-1 SureGrip™ Fused Test Probes

- · Built-in fuses for added protection
- 2 mm threaded probe tips include removable 4 mm lantern-style spring contacts
- Removable GS38 insulted IC caps for probing closely spaced leads
- CAT IIÍ 1000 V, CAT IV 600 V, 10A

FTPL-1 SureGrip™ Fused Test Probes with Leads

- FTP Fused Test Probes with built-in fuses for added protection
- Includes TL224
 Silicone Insulated Test
 Leads
- CAT III 1000 V, CAT IV 600 V, 10 A

85 High Frequency Probe

- Converts a DC Voltmeter into a high frequency RF Voltmeter.
- Conversion from AC to
 DC is accomplished on a one-to-one
 basis includes a range of 0.25 to 30V rms

Modular Clips

(for use with Modular Test Leads)

AC220 SureGrip™ Alligator Clip Set

- One pair (red, black) of small, insulated, nickel plated jaws
- Blunt tip grabs round screw heads up to 9.5 mm
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 10 A rating.

AC280 SureGrip™ Hook Clip Set

- One pair (red, black) of nickel plated clips
- Profile narrows to 5.6 mm at tip, hook opening 6.4 mm at front, 2 mm at base
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 3 A rating.

AC283 SureGrip™ Pincer Clip Set

- One pair (red, black) of nickel plated pincers open to 5 mm
- 11.4 cm flexible insulated shaft
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 1 A rating.

AC285-FTP Alligator Clips and Adapters for FTP-1 or FTPL-1

- Large alligator clip set.
- This accessory enables the use of AC285 alligator clips with FTP-1 fused probes.
- CAT III 1000 V, CAT IV 600 V, 10 A

AC285 SureGrip™ Large Jaw Alligator Clip Set

- One pair (red, black) of large alligator clips with nickel-plated steel jaws
- Multi-purpose tooth pattern grips anything from fine gauge wire to a 20 mm bolt
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 10 A rating.

AC288 SureGrip™ Terminal Block Probe

- Retractable probe tip for safe and secure connections
- Recommended for use with TL224, TL222 or TL221 test leads
- 1 mm diameter probe tip extends out to 8.4 mm length
- CAT III 1000V, CAT IV 600V

AC87 Heavy Duty Bus Bar Clip Set

- One pair (red, black) of flat, right angle design for connecting to bus bars
- Adjustable collar provides 2 ranges of jaw openings up to 30 mm
- CAT III 600 V, 5 A rating.

AC89 Heavy Duty Insulation Piercing Test Clip

- Single probe pierces 0.25 to 1.5 mm insulated wire
- Small pin allows selfhealing of the insulation
- CAT IV 600V, CAT III 1000 V, 5 A rating.

Push-on Clip

(for use with TL71 and TL75 Test Lead Sets)

AC175 Alligator Clip Set

- Slide-on alligator clips (red, black) for TL175/ TP175/ TL71/TL75
- Jaws provide 8 mm opening
- CAT IV 600 V, CAT III 1000 V, 10 A rating



The new standard for safety

TL175 TwistGuard™ Test Leads

- Probes meet new IEC 61010-031 requirements for safety
- Patented extendable tip guard meets new CAT III 1000 V, CAT IV 600 V requirements while providing the flexibility you need for CAT II measurements
- New WearGuard^{nu} test lead wear indicator that changes colour when leads are damaged and in need of replacement
- Probes always show correct category rating for tip being used
- Advanced strain relief exceeds 5,000 bend life
- · TP175 probes fit modular test leads
- TL175E and TP175E includes removable 4mm lantern tips for versatility.



LeadWrap Test Lead Wraps

- Eliminate tangled leads in your tool box
- Keeps test leads organised, ready for use
- Hook and loop fasteners for quick, easy use
- Three 8-inch (20 cm) test lead wraps per package



Fluke Current Clamps















Specifications AC Models

	i5s	i200	i200s	i400	i400s
Nominal current range(s)	5 A	200 A	20 A 200 A	400 A	40 A 400 A
Continuous AC current range	0.01 A - 6 A	0.5 A - 200 A	0.1 - 24 A 0.5 A - 200 A	5 A - 400 A	0.5 - 40 A 5 A - 400 A
Highest current	70 A	240 A	240 A	1000 A	1000 A
Lowest measurable current	10 mA	0.5 A	0.5 A	1 A	0.5 A
Basic accuracy (48-65 Hz) ¹	1%	1% + 0.5 A	1.5% + 0.5 A	2% + 0.15	2% + 0.15
Useable frequency	40 Hz - 5kHz	40 Hz - 10 kHz	40 Hz - 10 kHz	45 Hz - 3 kHz	45 Hz - 3 kHz
Max. working voltage	600 V AC	600 V AC	600 V AC	1000 V	1000 V
Maximum conductor diameter	15 mm	20 mm	20 mm	32 mm	32 mm
Output level(s)	400 mV/A	1 mA/A	100 mV/A 10 mV/A	1 mA /A	10 mV/A 1 mV/A
Batttery, battery life	-	-	-	-	-
Output cable (m)	2.5	1.5	2.0	1.5	2.5
Shrouded banana plugs	-	•	-	•	
BNC connector	•	-	•	-	•
BNC to banana adapter included	-	-	•	-	-
Safety	CAT III, 600 V	CAT III. 600 V	CAT III, 600 V	CAT III 1000 V / CAT IV 600 V	CAT III 1000 V / CAT IV 600 V













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	i800	i1000s	i2000 flex	i3000s flex-24 i3000s flex-36	i3000s	i6000 flex-24 i6000s flex-36	
Nominal current range(s)	800 A RMS	10 A 100 A 1000 A	20 A 200 A 2000 A	30 A 300 A 3000 A	30 A 300 A 3000 A	60 A 600 A 6000 A AC	
Continuous AC current range	0.1 A - 800 A RMS	IS 0.1 A - 100 A 2 A - 200 A AC 2 A 1 A - 1000 A RMS		1 A - 30 A 2 A - 300 A AC RMS 1 A - 300 A 1 A - 2400 A		1 A - 6000 A AC RMS	
Highest current	1500 A	2000 A	2500 A AC RMS	3500 A AC RMS	4000 A	6000 A	
Lowest measurable current	0.1 A	0.1 A	1 A	1 A	1 A	1 A	
Basic accuracy (48-65 Hz) ¹	0.10%	1% + 1 A	1%	1%	2% + 2 A	± 1% of range	
Useable frequency	30 Hz - 10 kHz	5 Hz - 100 kHz	10 Hz - 20 kHz (-3dB)	10 Hz - 50 kHz (-3dB)	10 Hz - 100 kHz	10 Hz to 50 kHz	
Max. working voltage	600 V AC RMS or DC	600 V AC	600 V AC RMS	600 V AC RMS	600 V AC	600 V AC RMS or DC	
Maximum conductor diameter	54 mm	54 mm	178 mm	Flex-24 178 mm Flex-36 275 mm	64 mm	Flex-24 170 mm Flex-36 275 mm	
Output level(s)	1 mA/A	100 mV/A 10 mV/A 1 mV/A	100 mV/A 10 mV/A 1 mV/A	100 mV/A 10 mV/A 1 mV/A	10 mV/A 1 mV/A 0.1 mV/A	50 mV/A 5 mV/A 0.5 mV/A	
Batttery, battery life	-	-	200 hours	400 hours	-	400 hours	
Output cable (m)	1.6	1.6	0.5	0.5	2.1	0.5	
Shrouded banana plugs	•	-	•	n/a	-	-	
BNC connector	-	•	n/a	•	•	•	
BNC to banana adapter included	-	-	n/a	•	•	•	
Safety	CAT III, 600 V	CAT III, 600 V	CAT III, 600 V	CAT III, 600 V	CAT III, 600 V	CAT III, 600 V	

¹ Basic Accuracy: % reading + floorspec ² i5s also comes in a 3 pack as i5sPQ3 ³ i3000s flex also comes in a 4 pack as i3000 Flex-4 pack

Fluke Current Clamps









80i-110s

i30

i30s

i310s

Specifications AC/DC Models

	80i-110s	i30	i30s	i310s	i410	i1010	
Measurement type	Hall sensor	Hall sensor	Hall sensor	AC/DC	Hall sensor	Hall sensor	
Nominal current range(s)	10 A, AC/DC 100 A, AC/DC	20 A AC RMS or DC	20 A AC RMS or DC	30/300 A AC RMS or 45/450 A DC	400 A, AC/DC	600 A, AC 1000 A, DC	
Continuous current range	0.1 A - 10 A AC/DC 1 A - 100 A AC/DC	30 A AC Peak	30 A AC Peak	100 mA - 300 A AC RMS or 450 A DC	1 A - 400 A AC/DC	1 A - 600 A, AC 1 A - 1000 A, DC	
Highest current	140 A - 2 kHz	30 A AC Peak	30 A AC Peak	300 A AC RMS or 450 A DC	400 A	1000 A	
Lowest measurable current	0.1 A	50 mA	50 mA	100 mA	0.5 A	0.5 A	
Basic accuracy ¹	3% + 50 mA (@ 10 A)	± 1% of reading ±2 mA	± 1% of reading ±2 mA	±1% of reading	3.5% + 0.5 A	2% +0.5 A	
Useable frequency	DC - 100 kHz	DC to 20 kHz (-0.5dB)	DC to 100 kHz (-0.5dB)	DC to 20 kHz	DC - 3 kHz	DC - 10 kHz	
Zero error adjustment	•	manual adjust via thumbwheel	manual adjust via thumbwheel	Manual	•	•	
Max. working voltage	600 V	300 V AC RMS	300 V AC RMS	300 V AC RMS or DC	600 V	600 V	
Maximum conductor diameter	11.8 mm	19 mm	19 mm	19 mm	30 mm 2 x 25 mm	30 mm 2 x 25 mm	
Output level(s)	100 mV/A 10 mV/A	100 mV/A	100 mV/A	10/1 mV/A	1 mV/A	1 mV/A	
Battery, battery life	9 V, 55 h	30 hours typical	30 hours typical	30 hours	9 V, 60 h	9 V, 60 h	
Output cable length (m)	1.6	1.5	2	2	1.6	1.6	
Shrouded banana Plugs	_	•	n/a	-	•	•	
BNC connector	•	n/a	•	•	-	-	
BNC to banana adapter included	-	n/a	•	•	-	-	
Safety	CAT II, 600 V CAT III, 300 V	CAT III, 300 V	CAT III, 300 V	CAT III 300 V	CAT III, 600 V	CAT III, 600 V	

¹⁾ Basic Accuracy: % reading + floorspec

Current Clamp Compatibility Chart																	
	113/114/115/116/117	175/177/179	233	287/289	2711 / 2811	3000FC	8845A/8846/8808A	77 IV	83V/87V/88V	43B	430 Series II	123/124/125	190 Series II	1577/1587	715/724/725	753/754	187/789
AC Models i5s		1				1	1										
i200	4	•	•	•	•	•	•	•	•		•		•	•			•
i200s	•	•			•	•	•	•	•			•	•	•		•	•
i400	•						•					•	•			•	
i400s	2	2	2	2	2	2	2	2	2	•	•	•	•	2		2	2
i430 flexi-TF-II 4 Pack										_			_				
i800	4	•	•	•	•	•	•	•	•		•			•			•
i1000s	2	2	2	2	2	2	2	2	2	•		•	•	2		2	2
i2000 flex (new version)	-	-	•	•	<u>-</u>	-	-	•	-	3	3	3	3	•			•
i3000s			•		•			•		•	•	•	•	•		•	
i3000s flex	•		÷	÷				•			•		÷	•			
i6000s flex			÷							-							
AC/DC Models	_	_	_	_	_	_	_	_	_		_						
i30	•	•	•	•	•	•	•	•	•					•			•
i30s	•	•	•	•	•	•	•	•	•	•	•	•	•	<u> </u>			
80i-110s	2	2	2	2	2	2	2	2	2	•	•	•	•	•		2	2
i310s	•	•	-	-	•	•	•	•	•	•	•	•	•	•		•	•
i410 / i410 kit	•	•	•	•	<u> </u>	•	•	•	•	<u> </u>	<u> </u>	3	3	•	1	•	•
i1010 / i1010 kit	•	•	•	•	•	•	•	•	•			3	3	•	1	•	•
Other													Ĭ,				_
90i-610s	2	2	2	2	2	2	2	2	2			•	•	2		2	2

Fluke Temperature Accessories



Contact Probes

80PK-22 SureGrip™ **Immersion Probe**

- Type-K thermocouple for use in liquids and gels
- Measurement range: -40 to 1090°C
- Probe length: 21.3 cm

80PK-24 SureGrip™ Air Probe

- Type-K thermocouple for use in air and non-caustic gas measurements
- · Bead protected by perforated baffle
- Measurement range: -40 to 816°C
- Probe length: 21.6 cm

80PK-25 and 80PT-25 SureGrip™ **Piercing Probe**

- 80PK-25: Type-K thermocouple suitable for food industry, liquids and gels
- 80PT-25 operates with T-type thermometers
- Measurement range: 80PK-25: -40 to 350°C 80PT-25: -196 to 350°C
- Probe length: 10.2 cm

80PK-26 SureGrip™ General **Purpose Probe**

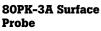
- Type-K thermocouple with tapered tip for use in air, non-caustic gas surface applications
- · Measurement range: -40 to 816°C
- Probe length: 21.2 cm

80PK-27 SureGrip™ **Industrial Surface Probe**

- Type-K thermocouple for surfaces in rugged environment
- Durable ribbon sensor
- Measurement range: -127 to 600°C
- Probe length: 20.3 cm

80PK-1 and 80PJ-1 Bead Probe

- 80PK-1: Type-K thermocouple for general purpose applications
- 80PJ-1 operates with J-type thermometers
- Measurement range: -40 to 260°C
- · Probe length: 1 m lead wire



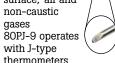
- · Type-K thermocouple for flat or curved surfaces
- · Measurement range: 0 to 260°C
- · Probe length: 9.5 cm

80PK-8 / 80PK-10 Pipe **Clamp Temperature Probe**

· Measurement range: -29 to 149°C for pipe diameters from 6.4 to 34.9mm (80PK-8) and 32 mm to 64 mm (80PK-10)

80PK-9 and 80PJ-9 General **Purpose Probe**

80PK-9: Type-K thermocouple surface, air and non-caustic gases



- Measurement range: -40°C to 260°C
- Probe length: 15.3 cm

80PK-11 Velcro Temperature Probe

- Type-K thermocouple for hands free measurement of HVAC temperature measuring applications
- Total length of cable:1m (0.5m in cable, 0.5m in Velcro cuff insulation material; Hytrel)
- Measurement range: -30°C to 150°C

DMM Probes

80AK-A Thermocouple Adapter

- Adapts Type-K thermocouple mini-connector to dual banana plug inputs
- Measurement range and accuracy: probe dependent
- Suitable for low voltage applications (below 30 V AC, 60 V DC)

80BK-A Integrated DMM Probe

- Type-K thermocouple with standard banana jack
- Convenient one piece construction
- Compatible with DMMs with temperature measurement functions
- Measurement range: -40 to 260°C

80TK Thermocouple Module

- · Converts a DMM to a thermometer
- For use with type-K thermocouples in low voltage applications (below 24 V AC, 60 V DC)
- Measurement range: -50 to 1000°C (probe dependent)

80T-150UA Universal **Temperature Probe**

- Compatible with Fluke DMM
- · High accuracy, fast reading for low voltage (below 24 V AC. 60 V DC) applications
- Measurement range: -50 to 150°C
- Output: 1 mV/°C or 1 mV/°F (switchable)

Other Temp Accessories

80PK-18 Pipe Clamp **Temperature Probe Kit**

- 80PK-8 Pipe Clamp Temperature Probe
- 80PK-10 Pipe Clamp Temperature Probe
- · Soft Case



80CK-M & 80CJ-M type K & J **Male Mini-Connectors**

- · Isothermal screw terminal for K or J wire
- · Suitable for up to 20 guage thermocouple wire
- Color coded to industry standards (K-yellow, J-black)
- · Two per package

80PK-EXT, 80PJ-EXT and **80PT-EXT Extension Wire Kits**

- Extending and repairing J, K ot T-type thermocouple wires
- Kit includes 3 metres of thermocouple wire and 1 pair of male/female miniconnectors
- Maximum continuous exposure temperature: 260°C
- 80PK-EXT is compatible with K-type thermometers, 80PJ-EXT is designed for J-type thermometers and PT-EXT for T-type thermometers

Thermocouple Plug Kits 700TC1

A kit of 10 mini-plug connectors Type J (black), one

Type K (yellow), one

Type T (blue), one Type E (purple), one

Type R/S (green), one

Type B or Cu (white), one Type L (J-DIN) (blue), one

Type U (T-DIN) (brown), one

Type C (red), one Type N (orange), one

700TC2

A kit of 7 mini-plug connectors Type J (black), two Type K (yellow), two Type E (purple), one Type T (blue), one Type R/S (green), one







Fluke Cases and Holsters



Soft Cases

Zipped carrying cases protect your meter; most cases come with belt loops so your meter is stored conveniently on your tool belt.



¹ Also available in camouflage print

C195

- · Zipped carrying case with storage compartments
- · Allows hand or shoulder use



• Large fabric carrying case with 3 compartments, removable handle and shoulder strap



C550 Tool Bag

- Steel reinforced frame
- Rugged ballistic cloth with heavy duty hardware
- · Large zippered storage compartment with 25 pockets
- Weather resistant
- · Carry all your tools to the job





Cases & Holsters Compatibility Chart

														0																		
														333/334/335/336/337/902																		
		12												2		1503/1507/1577/1587																
		113/114/115/116/117												ĕ		15									7							
		16												36,		7		SS							561/566/568/572-2		712/714/715/717					
		=												8		57		1735/1740 Series		S.				Ħ	35		7					
		15	139		×				≥			٠.	23	33		=		Š		43B/120 Series	=			4	88		13		724/725/726			
		=	175/177/179		3000FC DIMIN				83V/87V/88V			T100 Series	323/324/325	ĕ		02	62	유	430 Series II	S.	Series II			51/52/53/54	150		7		Ë			
		4	17		<u>5</u>	စ္က	2811		≳			, <u>ē</u>	4.	4	155	100	9040/9062	Ž	Ţ	2	Ţ			Š	98	2	₹	9	22	753/754		
		15	15		6	287/289	::	5	<u>∞</u>			S	8	ĕ	353/355	3	%	5	S S	12	Se			2	3	705/207	5	718/719	1	Ĕ		
		<u>6</u>	55	233	١ĕ	12	27II /	77 IV	≥		190	I ≊	2	33	133	l ö	₹.	2	2	ı M	190	922	971	≝	1	150	2	∞	4	1 23	787	789
		=	=	2	3	122	5	7.2	×	T5	Ĕ	F	33	ä	35	ĭ	6	=	4	4	31	76	6	51	26	7	7.1	7.1	7.7	75	32	32
Soft Cases	Size (HxWxD) mm																															
C12A	172 x 128 x 38	•																								•						
C23	225 x 95 x 58	•						•					•									•	•									
C25	218 x 128 x 64	•	•		•			•	•							•	•					•	•	•			•		•		•	•
C33	280 x 115 x 55		<u> </u>	_			\vdash	•	<u> </u>			•		•	_			<u> </u>												\sqcup	•	
C35	220 x 140 x 65	•	•	•	•		•	•	•							•		<u> </u>				•		•		•	•			Ш		•
C43	318 x 230 x 90														•					•								•	•	Ш		
C50	192 x 90 x 38	•																						•						\Box		
C75	179 x 103 x 26	For r		le tes	leads	and	acces																									
C90	205 x 90 x 72		•					•														•										
C115	240 x 205 x 75	•	•		•			•	•							•				•				•		•	•	•				•
C116	240 x 230 x 65	•	•	•	•	•	•	•	•							•				•				•		•	•					•
C125	192 x 141 x 58				•				•							•				•		•						•	•		•	•
C150	298 x 114 x 56										•	•		•																	•	
C195	231 x 513 x 231																		•	•	•											
C280	230 x 185 x 65	•	•	•	•	•	•	•	•							•				•				•		•	•	•	•		•	•
C345	240 x 360 x 200						acces																									
C550	333 x 513 x 231	For r	nultip	le tes	leads	and	acces	sories																								
C781	269 x 141 x 90			•	•	•	•									•				•								•	•	•		•
C789	308 x 256 x 77				•															•								•		•	•	•
C799	305 x 229 x 165																													•		
Hard cases																																
C20	256 x 154 x 106																															
C100	397 x 346 x 122		•	•			•		•																		•				•	
C101	305 x 360 x 105		•	•	•		•		•	•		•	•	•		•	•						•	•		•	•	•	•		•	•
C120	346 x 397 x 128																			•												
C290	410 x 474 x 135																				•											
C437-II	565 x 476 x 305																	•	•											Ш		
C800	230 x 385 x 115		•	•			•	•	•																		•			\Box	•	
C1600	260 x 390 x 200	For r	nultip	le tes	_	and	acces	sories	,					,																		
CXT80	28 x 32 x 13				•				•									<u> </u>											•	\sqcup		•
CXT170	28 x 32 x 13		\vdash			_	\vdash	•	\vdash				<u> </u>	<u> </u>	_	•		<u> </u>				•		<u> </u>			•	•		\sqcup	•	
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Leather Cases										_																						
C510	287 x 179 x 106		•		•			•	•							•								•			•		•		•	•
C520A	256 x 154 x 106	\perp	<u> </u>	₩	_	_	\vdash	\vdash	\vdash	•	\vdash	_	_	<u> </u>	_	_		\vdash						\vdash			_	\vdash		\sqcup		
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Other H3 H5	231 x 90 x 64 192 x 90 x 38									•			•	•																		
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Other H3 H5	231 x 90 x 64 192 x 90 x 38 302 x 178 x 57		•		•	•	•	•	•	•			•	•		•						•		•	•		•		•		•	•

Fluke Cases and Holsters





Hard Cases

C20 Meter Case

- Heavy duty case with carrying handle and accessories storage compartment
- · Top cover snaps onto back to serve as tilt stand

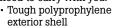
C100 Meter and **Accessory Case**

Tough polyprophylene



C101 Hard Case

Configure the diced foam interior to store and protect what you need to carry with you.



Interior cavity measures

C120 and C290 Cases

 Heavy duty cases with accessory storage compartments



C437-II Hard Rolling Case

· Watertight hard case with rollers for 430 Series, 1735 and 1740 Series Power Quality products and accessories. The configurable foam securely holds any of these instruments during transit.



C1600 Meter and Accessories Case

- Rugged molded plastic case
- Deep interior large enough to hold and protect your tools
- Lift out tray keeps everything organised
- · Snap open compartment on top of lid

CXT80, CXT170, CXT280, CXT1000 Rugged **Pelican Hard Case**

· Unbreakable, watertight, airtight, dustproof. chemical resistant and corrosion proof cases



Leather Cases

C510 Leather Meter Case

- Oiled genuine top grain cowhide
- Rugged construction with heavy duty stitching and reinforced rivets
- Large tool belt loop and top flap to secure meter

C520A Leather Tester Case

- · Oil tanned for long life
- · Large tool belt loop and top flap to secure tester



Holsters

C10 Meter Holster

- Snap-on yellow holster absorbs shocks and protects meter from rough handling
- Includes built-in stand and hanger loop

H80M Holster + **Magnetic Hanger**

- Snap-on yellow holster absorbs shocks and protects meter from rough handling
- Magnet, hook and loop strans



H3 Clamp Meter Holster

- · Fabric holster absorbs shocks and protects meter from rough handling.
- Built-in pocket for lead storage



H5 Electrical Tester Holster

· Rugged fabric holster includes flap for lead storage



H6 IR Thermometer Holster

- Durable nylon holster
- For Fluke 63 Infrared Thermometer



Software

Logging software



FlukeView® Forms

Harness the power of the data logging function on your Fluke Digital Multimeter, Thermometer or ProcessMeter. Log live readings while connected to a PC, or leave your Fluke 289, 789 or 54-II in place to capture up to 1,000 readings for download to a PC.

Choose the model that's right for you:

- FVF-SC2: Includes software and cable used with 280 Series DMMs and 789 ProcessMeters, and the 1653B Multifunction **Installation Tester**
- FVF-SC3: Includes software and cable used with 45 Bench Meters
- FVF-SC4: Includes software and cable used with 8845A and 8846A Multimeters

Go to www.fluke.com.au to download the demo.

FlukeView® Forms Basic

An abridged version of FlukeView Forms.

- Compatible for use with 280 Series DMMs and 789 ProcessMeters only
- Upgrade to the full FlukeView Forms with FVF-UG

FLUKE CONNECT **Accessories**

Fluke Connect ir3000FC Connector

Fluke Connect ir3000 FC Connector allows you to wirelessly transfer data from your existing Fluke Tools to your smart phone.

- · Wirelessly share measurements with your teamanywhere, anytime
- Connect the Fluke 289/287 True-rms Logging Multimeter and the 789 ProcessMeter with the ir3000FC Connector



Fluke Connect Wireless PC **Adapter PC3000FC**

The Fluke 3000 FC Wireless Test Tools are a team and the modules are team players. You connect any of the Fluke Connect™ Modules to your test point and then view the results through Windows® software on your PC - up to 20 metres away. Save time and conduct more tests with less trips. The pc3000 FC Adapter and Software wirelessly

collects up to 65,000 sets of time stamped min/max/avg readings from FC remote modules.



Fluke Connect Wireless SD Card

Wirelessly enable your Fluke infrared camera with the Fluke Connect™ wireless SD card and you can instantly upload, share and analyse data from anywhere, with anyone on your team, at any time.



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Fluke Process Tools & Automotive Accessories

Process Tools

BP7240

- · Li-ion rechargeable battery; nominal 7.2 volt, 4400 mA hr
- Use with 750 Series Calibrators



BP7235

- NiMH rechargeable battery; nominal 7.2 volt, 3500 mA hr
- Use in 700 and 740 Series Calibrators



700LTP-1 Low Pressure Test Pump

Hand operated pressure pump designed to generate either vacuum to -13 psi/ -.90 bar or pressures to 100 psi/6.9 bar.



700ILF In-line Filter

The Fluke 700ILF can be used to isolate the calibrator from incidental contact with fluids.



700PTP-1 Pneumatic **Test Pump**

The Fluke 700PTP is a handheld pressure pump designed to generate either vacuum to -11.6 psi/-0.8 bar or to 600 psi/40 bar.



700HTP-2 Hydraulic **Test Pump**

The Fluke 700HTP is designed to generate pressures up to 10,000 psi/690 bar. Use the Fluke 700PRV adjustable relief valves to limit pressures from 1360 psi to 5450 psi.



700HTH-1 Hydraulic **Test Hose**

The 700HTH is a 10,000 psi, 690 bar test hose that connects to a calibration unit under test from a Fluke 700HTP hydraulic test pump.



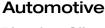
700PMP Pressure Pump

The 700PMP is a handoperated pressure pump to provide pressures up to 150 psi/1000 kPa. Output fitting is 1/8 FNPT.



Fluke 700-IV Current Shunt

Conversion factor: 10 mV = 1 mAAccuracy (% of input, one-year): 0.025 % Input current: 0 mA to 55 mA Input resistance:nominal Output resistance: 10 $\boldsymbol{\Omega}$ nominal



Piercing Clips

TP81 and TP82 Insulation Piercing Clip Set

- Banana jack accepts all DMM and banana jack
- · Available for 4 mm input, modular connection with TP81 or available as a 2 mm input to slip onto probe tips with the TP82
- Tested to 60 V DC

Probe Pins

TP88 Rigid Back Probe Pin Set

- · Slides onto test probes measuring 2 mm
- Tested to 60 V DC

TP40 Automotive Back Probe Pins (five)

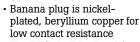
- · Banana jack accepts all DMM and banana jack leads (4 mm)

Tested to 60 V DC

Banana Plugs

BP880 BNC to Female Double Stacking Banana Plug BP881 BNC to Male Double Stacking Banana Plug

Allows for hands-free testing in controlled voltage environments 500 VRMS maximum



- The BNC shell is plated for tarnish resistance
- Operating temperature +50°C maximum

Pressure Module

PV350 Pressure Vacuum Module

- · Compatible with all Fluke and most popular DMMs
- · Digital pressure and vacuum measurements in a single module
- Transducer sealed in 316 stainless steel compatible with variety of liquids and gases
- Measures vacuum to 76 cm Hg
- Display results in English (psig or Hg) or metric (kPa or cm Hg) units
- Measures pressure to 500 psig (3447 kPa)

Inductive Pick-up

RPM80 Inductive Pick-up

Provides RPM readings



Test Leads

TL28A Automotive Test Lead Set

- Flexible silicone insulated leads are heat and cold resistant
- CAT I 30 V, 10 A

TLK281 SureGrip™ **Automotive Test Lead Kit**

Kit contains:

- TP81 Insulation Piercing Clip Set
- TL224 Suregrip™ Silicone Test Lead Set
- TP220 Suregrip™ Test Probe Set
- AC220 Suregrip $^{\text{TM}}$ Alligator Clip Set
- AC285 Suregrip[™] Large Jaw Alligator Clip Set
- Soft Case

TLK282 SureGrip™ Deluxe **Automotive Test Lead Kit**

Kit contains:

- TP81 Insulation Piercing Clip Set
- TP40 Automotive Back Probe Pins (five)
- TL224 Suregrip™ Silicone Test Lead Set
- TP220 Suregrip™
- Industrial Test Probe Set AC220 Suregrip[™] Alligator Clip Set
- AC285 Suregrip™ Large Jaw Alligator Clip Set
- AC280 Suregrip™ Hook Clip Set
- Soft Case

lead set

TL 82 Automotive Pin & **Socket Adapter Kit**

This set of male and female adapters allows you to make firm connection to pin and socket connectors.

- Kit contains: · Retractable shrouded test
- · Complete set of 8 pin-andsocket adapters with flexible tips
- · One red and black in different sizes
- · Rated to 60 V DC

Current Probe

90i-610s AC/DC Current Probe (600 A)

- Current Range: to 600A DC or AC Peak
- Basic Accuracy (DC to 400Hz): \pm (2% of reading + 1A)
- · Output Signal: 100A range: 10mV/A 600A range: 1mV/A
- Frequency Range: 40Hz to 400Hz
- · Working Voltage: 600V AC RMS
- · Maximum Conductor Diameter:







Other Accessories

Free your hands and shed light on the contact point





Lights

L200 Probe Light

- Attaches to any Fluke test probe
- Bright white LED
- 120 hours of battery life

L205 Mini Hat Light

Rugged high-intensity Xenon worklight

- · Attaches to a baseball cap
- Includes a hat clip
- Includes two AAA batteries
- Waterproof



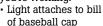
(hard hat not included)

Attach it to a hard hat, a baseball cap, or even a panel door for all the light you need.

- 3 super bright white
 LEDs never burn out
- · Special hard-hat attachment included
- 40-hour battery life
- · Includes three AAA batteries

L207 High Intensity Light with Collector's Cap

Powerful, lightweight, mini-Xenon worklight shines right where you're working.



 Electrically and thermally nonconductive

L210 Probe Light + Probe Extender

Includes L200 Probe Light and TP280 Test



 Extender fits between modular test probe and test lead (total reach 30 cm)

L211 Probe Light Kit

Includes L200 Probe Light, TL71 Premium DMM Test Lead Set and C75 Case

- Small, rugged light easily attaches to any Fluke test probe
- Flexible silicone test leads are heat and cold resistant
- 120 hours of battery life

High Voltage Probes

80K-6 and 80K-40

A high voltage probe that allows a multimeter to measure up to 6,000V or 40,000V respectively.



Intended for low energy applications only

Stray Voltage Adapter

SV225 Stray Voltage Adapter

Stray voltage can appear in electrical installations, due to the capacity between wires. This may result in erroneous readings on high impedance meters.



The SV225 solves this

without compromising safety.

- On energised wires, the meter will indicate the real voltage.
- On non-energised circuits the meter will read close to zero (even if there are stray voltages).
- It can be used with all modern meters with standard input spacing.
- Rated CAT III 1000 V, CAT IV 600 V

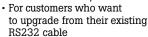
TL225-1 SureGrip™ Stray Voltage Adapter Test Lead Kit

Kit includes:

- SV225 Stray Voltage Eliminator
- TL224 SureGrip[™]
 Silicone Test Lead
 Set (right to straight)
- TP238 SureGrip[™]
 Insulated Test Probe Set
- · C75 Accessory Case

IR189USB

IR to USB interface cable (included with FVF-SC2 and FVF-Basic)



 Small adapter to connect the cable to the 189, 287, 289, 1653B or the 1550B is included.

Meter Cleaners

MC6 MeterCleaner™ Wipes (6-pack) MC50 MeterCleaner™ Wipes (50-pack)

- Pre-moistened wipe removes dirt, oil and grease
- One wipe easily cleans one meter
- Safe on rubber, plastic and for environment (non-toxic)



Hangers



TPAK ToolPak™ Magnetic Meter Hanger

- Free both hands to make measurements
- Hang your meter from metallic surfaces like panels and pipes
- Kit includes universal hanger clips (two), hook and loop straps (two lengths), adapter and strong magnet
- Attaches to back of many Fluke meters, including 110, 170, 280 Series, 87V and 83V DMMs, 724, 725 and 789 Process Calibrators, 1503, 1507, 1577 and 1587 Insulation Multimeters and 50 Series II Digital Thermometers

Fluke Seminars and Workshops

Fluke offers a variety of tools including hands-on and online training, videos and demos to help increase your skills. Fluke seminars and workshops cover a range of topics to help you learn the latest troubleshooting techniques and best practices. Most of Fluke's seminars and workshops combine instructor lead training with the opportunity to use the tools and try the techniques presented.

MOTORS & DRIVES

The Fluke Hands-on Motors and Drives workshop will assist attendees to troubleshoot faster and avoid downtime using the latest measurement technology and test tools

WHAT YOU WILL LEARN?

- · Understand a range of measurements and tools that can be used to isolate possible causes of failure in a three-phase motor drive system
- Understand specific measurement techniques and test tool applications to isolate fault conditions
- · Reduce downtime by improving



POWER QUALITY

The Fluke Power Quality Hands-On Seminar will help attendees discover how to detect and prevent power quality problems with the right tools and knowledge from Fluke. This course will educate attendees to reduce expensive plant downtime by using planned maintenance techniques to improve power quality, and reduce costly electrical utility penalties for poor power quality.

WHAT YOU WILL LEARN?

- · Fundamentals of Power Quality
- How to troubleshoot power quality with Fluke's Power Quality Analysers
- How to save money by improving power quality



THERMOGRAPHY

Workshop will help attendees learn how to troubleshoot faster and avoid downtime using the latest infrared technology and

WHAT YOU WILL LEARN?



PREDICTIVE MAINTENANCE

The Fluke Predictive Maintenance Workshop provides, Thermal Imaging, Vibration Testing and Analysing hands-on training that will help learners to troubleshoot faster and avoid downtime using the latest infrared technology and vibration technology.

WHAT YOU WILL LEARN?

- Proactive Maintenance 101
- · Fundamentals of thermal imaging
- $\mbox{\ }$ How to troubleshoot using the infrared cameras in various applications
- $\hbox{-} \ \mbox{How to prepare thermography inspection}$
- reports and quantify cost savings
 How to operate the Fluke 810 Vibration tester on rotating machineries to identify the following mechanical faults:
- Unbalance
- Bearings
- Misalignment Looseness



PROCESS TOOLS

The Fluke Process Tools Hands-on training teaches attendees how to test and verify 4-20 mA signal and devices as well as various pressure and temperature transmitters which will assist to troubleshoot faster and avoid costly downtime.

WHAT YOU WILL LEARN?

- Testing, troubleshooting, calibrating, process temperature devices
- Testing and troubleshooting 4-20 mA control loops
- Measuring loop power supplies and
- troubleshooting suspect power supplies Using a HART transmitter as a mA source
- Testing a I/P with 4-20 mA sourcing
- Testing a control valve with a 4-20 mA source



ENERGY MEASUREMENT

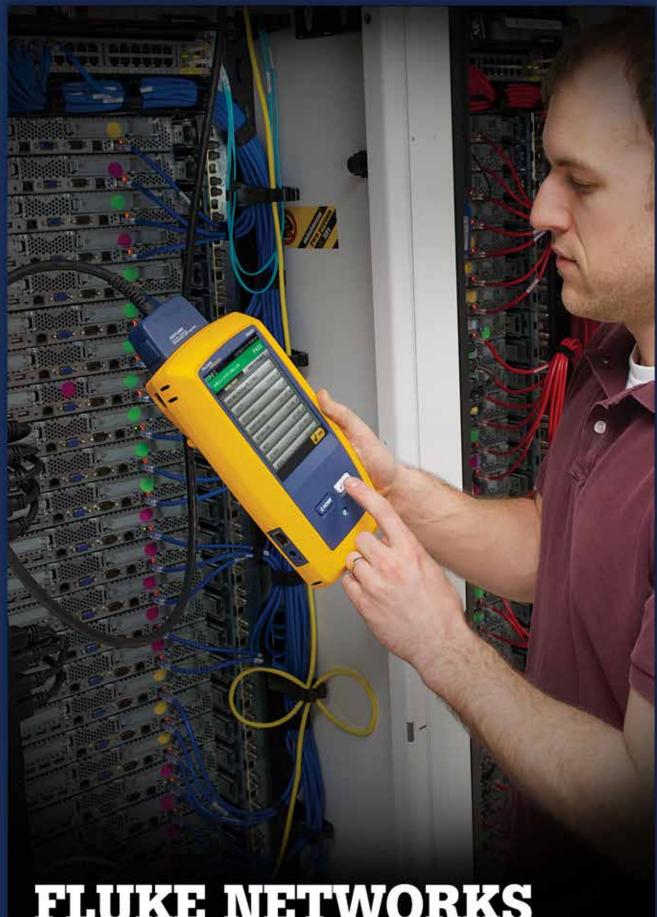
Discover how to reduce energy consumption and increase savings by learning where and how to quantify energy consumption, and identify energy waste.

WHAT YOU WILL LEARN?

- · Strategies to lower your energy bill
- Tools to identify and quantify waste
- · Measure and log power consumption
- Identify and measure common production process system wastes
- Detect energy waste with vibration detection and analysis
- Calculate the dollar cost of compressed air
- · Measure voltage unbalance to calculate
- · Quantify electrical cost of ventilation
- How to reduce HVAC costs



Want to learn more about the different appreciation areas in the Fluke series or to view the New Year Calendar for a workshop near you go to www.fluke.com/au/trainingcentre



FLUKE NETWORKS

CableIQ™ Qualification Tester



CableIQ is the first qualification tool designed for network technicians who need to troubleshoot connectivity problems and qualify cabling bandwidth. It detects speed and duplex settings of attached switches and PCs. Intelligent wiremap graphically shows distance to faults (e.g., pin 1 break at 37 ft). Lightweight, rugged, reliable unit tests all copper cabling. Its ease and power helps you close trouble tickets faster and ensure smooth upgrades to higher network speeds.

- Sees if your existing cabling can support voice, VoIP, 10/100/Gigabit Ethernet
- Troubleshoots why existing cabling plant can't support the desired network bandwidth
- Discover what's at the end of any cable and displays device configuration (speed/duplex/pairing)
- Frees up switch ports and identifies unused links
- Graphically maps wiring configuration and shows distance to faults
- Locates and traces cable with IntelliTone™ digital signaling technology

Model	Description	Gold 1YR
CIQ-100	CableIQ with remote adapter, soft carrying case and four AA batteries	GLD-CIQ
CIQ-KIT	CableIQ with remote adapter. With the addition of Alien Crosstalk modules, IntelliTone Pro 200 Probe, six remote office IDs, rugged carrying case and four AA batteries	GLD-CIQ
CIQ-KRQ	CableIQ, RJ-45 patch cord (2), RJ-11 patch cord (2), bare wire adapter, speaker wire adapter, coax cable, coax BNC adapter, coax RCA adapter, "Qualified" labels (50) and a soft carrying case	GLD-CIQ
CIQ-CIT	CableIQ IT hard carrying case	N/A
CIQ-COAX	CableIQ Coax Adapter Kit—includes F-connector, BNC and RCA connectors	N/A
CIQ-IDK24	CableIQ Remote Identifier Kit—includes remote identifier numbers 2-4	N/A
CIQ-IDK57	CableIQ Remote Identifier Kit—includes remote identifier numbers 5-7	N/A
CIQ-RJA	RJ-45/11 modular adapter	N/A
CIQ-SPKR	CableIQ speaker wire adapter	N/A
CIQ-WM	CableIQ main wiremap adapter (replacement part for lost or damaged unit)	N/A
CLIP-SET	Clip Set – includes RJ-45-to-8-clip test lead	N/A





MicroMapper™



Simple verification tester verifies wiremap and identifies faults with LEDs.

- Testing of twisted pair cables for open circuits, shorts, crossed pairs, reversed pairs and split pairs
- Easy-to-read fault display
- · Tone generator for tracing installed cables hidden in walls, floors and ceilings
- Remote unit enables one-person testing of installed cables

Model	Description
MT-8200-49A	MicroMapper and MicroMapper Remote, patch cable, 6-volt alkaline battery and user guide

To learn more visit: www.flukenetworks.com/micromapper

MicroScanner² Cable Verifier



Next generation MicroScanner streamlines voice/data/video cable and service testing. The user interface makes testing fast, easy, and crystal clear. Everything cable technicians need to know, including available services (10/100/1000 Ethernet, POTS, PoE voltage), cable length, wiremap, cable ID, and distance to fault all are displayed on one oversised back lit screen. Replace multiple tools by testing all RJ-11, RJ-45, and coax (F) media with no adapters. Built-in IntelliTone™ digital and analog toning precisely locates virtually any cable or wire pair − even on active networks. Ergonomic design features sleek rubber over mold to enhance grip and ruggedness. Includes carry case.

- Displays cable length, wiremap, cable ID, and distance to fault on one screen
- Detects today's media services, including 10/100/1000 Ethernet, POTS, and PoE
- Locates virtually any cable or wire pair with IntelliTone digital and analogue toning







Model	Description
MS2-100	MicroScanner ² Cable Verifier
MS2-KIT	MicroScanner ² Professional Kit—includes MicroScanner ² Cable Verifier, Remote ID #s 2-7, IntelliTone Pro 200 Probe, bare wire adapter, coax cable, two shielded RJ-45 cables, two RJ-11 cables and a deluxe carry case
MS2-TTK	MicroScanner ² Termination Test Kit—includes MicroScanner ² Cable Verifier, IS60 Pro Tool Kit, IntelliTone Pro 200 Probe, RJ-11 and RJ-45 patch cables, lanyard, owners CD and quick start guide, 9 volt battery and a deluxe carry case
MS2-IDK27	MicroScanner ² Remote ID Kit #s 2-7
CLIP-SET	Clip Set—includes RJ-45 to 8-clip test lead
MT-8200-63A	IntelliTone Pro 200 Probe

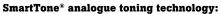
To learn more visit: www.flukenetworks.com/microscanner

IntelliTone™ Pro 200 LAN Toner and Probe



The IntelliTone Pro 200 LAN Toner and Probe Series from Fluke Networks is the first network cable toner and probe to offer digital and analog signaling all in one tool. The IntelliTone Pro 200 LAN Toner and Probe Series from Fluke Networks gives you superior vision for locating cables hidden in floors, ceilings, walls, and in bundles. Its breakthrough digital technology makes it the first tool to tone and trace safely and effectively on active networks.

- Ends cable location confusion; decisively rejects noise and false signals
- Locates cables on active networks; even when terminated at a switch
- Isolates cable and wiring within a bundle despite cable bleed
- Confirms cable location, verifies continuity and detects faults (opens, shorts and reversed pairs) in one step



- Isolates individual wire pairs precisely by changing tone when shorted
- Effectively traces and locates voice, audio, and video cabling



Model	Description
MT-8200-60-KIT	IntelliTone Pro 200 LAN Toner and Pro 200 Probe, coax F connector adapter, (2) RJ11 and (2) RJ 45 patch cables, test leads with alligator clips, lanyards, quick start guide, and (2) 9 volt batteries
MT-8200-61-TNR	IntelliTone Pro 200 LAN Toner, coax F connector adapter, RJ11 and RJ 45 patch cables, test leads with alligator clips, lanyard, quick start guide, and 9 volt battery
MT-8200-63A	IntelliTone Pro 200 Probe, RJ11 and RJ 45 patch cables, lanyard, quick start guide, and 9 volt battery

Accessories

Model	Description
MT-8202-05	IntelliTone Case Heavy-duty pack cloth padded and lined case with belt loops and d-ring
MT-8203-20	Test Leads with Bed of Nails Set of two Banana Jack test leads with piercing pin 'Bed of Nails' alligator clips with vinyl sleeves
MT-8203-22	Test Leads with Alligator Clips Set of two Banana Jack test leads with standard alligator clips with vinyl sleeves

TS®100 PRO Cable Fault Finder



Invest in the right tool for all your technicians. The new TS®100 PRO Cable Fault Finder with PowerBT™ Bridge Tap Detect is a telecom technician's first line of defense against bridge taps on a subscriber's line. A bridge tap is a significant source of DSL network performance problems due to unwanted signal reflectance therefore it needs to be identified and fixed quickly before the problem causes customer attrition. The TS100 PRO can accurately locate multiple bridge taps in seconds on up to 3,200 feet of cable with the touch of a button.

- Bridge tap detection for xDSL pre-qualification on up to 975m
 Tests opens and shorts up to 2.4km
- Sees past bridge taps to the end of the cable
- Built-in TDR and toner

- Patented SmartTone® tone generator with five different tones for exact pair identification
- AC/DC voltage detection and digital read out

Model	Description
TS100-PRO-BT-TDR	TS100 PRO Cable Fault Finder TDR Kit with Bridge Tap Detect
LEAD-ABNP-100	Test lead with angled-bed-of-nails and piercing pin. Compatible with the TS100 and TS100 PRO
CASE-TS100	TS100/TS100PRO pouch with Fluke Networks' logo
LEAD-ALIG-100	Test lead with alligator clips. Compatible with the TS100 and TS100 PR0
LEAD-ABN-100	Test lead with angled-bed-of-nails. Compatible with the TS100 and TS100 PR0



To learn more visit: www.flukenetworks.com/ts100pro

Fiber QuickMap™



As a new category of enterprise fiber troubleshooter that leapfrogs the limited capability troubleshooters currently on the market, the Fiber QuickMap quickly and efficiently locates connections and breaks in multi mode fiber with the press of one-button. By instantly (six second typical test time) providing distances to failures such as high loss and high reflectance incidents, it is the must-have troubleshooter for any technician who works with fiber in datacenters.

- One-button troubleshooting-no lengthy set-up necessary
- Six-second test time—no more blind troubleshooting that can last up to hours Locate high loss incidents or breaks—find the most common causes of fiber failure

Model	Description	Gold 1YR
FQM-MAIN	Fiber QuickMap mainframe with carrying pouch	GLD-FQM
FQM-KIT	Fiber QuickMap Kit with SC/LC 50 µm Launch Fiber, Interchangable LC Adapter and carrying pouch	GLD-FQM
FTS900	Fiber QuickMap Kit with test reference cords (50 and 62.5 μm for both SC/SC and SC/LC), VisiFault Visual Fault Locator and carrying case	GLD-FQM
FTS1000	Fiber QuickMap Troubleshooter Kit with test reference cords (50 & 62.5 μ m for both SC/SC & SC/LC), VisiFault Visual Fault Locator, and SimpliFiber Pro power meter and multimode source and case	GLD-FQM-FTK

To learn more visit: www.flukenetworks.com/FiberQuickMap

Fiber OneShot™ PRO



Fiber OneShot PRO takes the complexity out of singlemode fiber testing by analysing fiber links and measuring faults up to 15 miles in less than five seconds. Whether you are troubleshooting FTTx, Hybrid Fiber Coax (HFC), fiber links between Central Offices, or working on regional or rural access networks, Fiber One Shot PRO is your first response to fiber trouble. This new class of tester fills the gap between a VFL and OTDR because it easily and quickly locates lossy connections, high-loss faults and breaks in a singlemode fiber network.

- Measures up to 23,000 metres of fiber in seconds
- Locate severe bends, high-loss splices, breaks and dirty connectors in singlemode fiber
- Save and store up to 99 test results for later review

Model	Description	Gold 1YR
FIBR-1-SHOTPRO	Fiber OneShot PRO only—includes meter, SC adapter, 22-language quick reference guide (QRG) on CD, manual and batteries	GLD-FOS-PRO
FIBR-1-KITPRO	Fiber OneShot PRO-SC-Kit—same as SHOTPRO plus UPC-UPC 2-metre patch cord, holster and case	GLD-FOS-PRO
FIBR-1-KITPRO-VF	Fiber OneShot PRO-SC-Kit with VisiFault—everything in the PRO-SC-Kit plus the VisiFault Visual Fault Locator with 2.5 mm universal adapter	GLD-FOS-PRO
FIBR-1-KITPRO-PM	Fiber OneShot PRO-SC-Kit with SimpliFiber Pro—everything in the PRO-SC-Kit plus SimpliFiber Pro optical power meter and SC adapter	GLD-FOS-MULTIKITS
FIBR-1-KITPRO-VFPM	Fiber OneShot PRO-SC-Kit with VisiFault and SimpliFiber Pro—includes meter, SC adapter, UPC-UPC 2-metre patch cord, holster, case, 22-language QRG on CD, manual and batteries plus the VisiFault Visual Fault Locator with 2.5 mm universal adapter and SimpliFiber Pro optical power meter and SC adapter	GLD-FOS-MULTIKITS
FIBR-1-PRO-LSPM	Fiber OneShot PRO-SC-Kit with SimpliFiber Pro and Light Source—includes meter, SC adapter, UPC-UPC 2-metre patch cord, holster, case, 22-language QRG on CD, manual and batteries plus SimpliFiber Pro optical power meter and 1310nm/1550nm Light Source	GLD-FOS-MULTIKITS
Accessories		
FIBR-AC-UAPC	1-metre UPC-APC launch cord	
FIBR-UPC-CORD-2M	2-metre UPC-UPC patch cord	

To learn more visit: www.flukenetworks.com/theone

VisiFault™ Visual Fault Locator



The laser-powered VisiFault™ Visual Fault Locator (VFL) traces fibers, verifies continuity and polarity, and helps find breaks in cables, connectors and splices. Continuous and flashing modes for easier identification. Compatible with 2.5 mm and 1.25 mm connectors for easy connection.

- Bright red visible laser light source, features continuous and flashing modes
- Accelerates end-to-end fiber continuity checks
- Speeds fiber tracing and identification
- Aids in location of fiber faults including tight bends, breaks and bad connectors

Model	Description
VisiFault	VisiFault Visual Fault Locator with 2.5 mm universal adapter
NF380	1.25 mm Universal VisiFault Adpater

To learn more visit: www.flukenetworks.com/visifault



D914™S Impact Tool



SoftTouch D914S Impact Tool offers a new ergonomic design with a soft rubber handle for better grip and rounded edges to absorb more of the impact recoil. Includes built-in probe pic/spudger and torque, allowing you to choose from high-and low-impact settings.

- Industry standard, internationally accepted with lifetime warranty
- Hook and spudger tools are built into the handle
- Automatic spring handle—choose low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Accepts Phillips-head or flat screwdriver blade

Model	Description
10061000	D914S Impact Tool
10061100	Tool with EverSharp 66 blade
10061110	Tool with EverSharp 110 blade
10061501	Tool with EverSharp 110, EverSharp 66 blade and free screwdriver blade
10061503	Tool with BIX and EverSharp 66/110 cut blade
10061810	Tool with EverSharp 66/110 blade

To learn more visit: www.flukenetworks.com/d914

D914[™] Impact Tool



The D914 Impact Tool is the only punchdown tool to combine torque and impact. It combines two versatile tools, the hook and spudger, into the handle. 66/110 blades available.

- Ensures clean, smooth terminations ready for optical transmission
- Industry standard, internationally accepted with lifetime warranty
- Hook and spudger tools are built into the handle
- Automatic spring handle—choose low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Accept Phillips-head or flat screwdriver blade

Model	Description
10051000	D914 Impact Tool
10051100	Tool with EverSharp 66 blade
10051110	Tool with EverSharp 110 blade
10051120	Tool with EverSharp 110 and EverSharp 66 blade
10051501	Tool with EverSharp 110, EverSharp 66 blade and free screwdriver blade

To learn more visit: www.flukenetworks.com/d914

D814[™] Impact Tool



The D814 Impact Tool is a deluxe, all-in-one, telecom punchdown tool and comes with the 66/110 blade. Impact wheel has high and low settings. Automatic spring mechanism provides the right impact to seat and/or terminate wires.

- Industry standard with lifetime warranty
- Accepts standard industry blades
- Lightweight and easy-to-use
- Adjustable spring impact mechanism allows low impact for 24/26 gauge wire or high impact for 22-gauge wire

Model	Description
10054000	D814 Impact Tool
10055000	Tool with EverSharp 66 blade
10055110	Tool with EverSharp 110 blade
10055200	Tool with EverSharp 110 and EverSharp 66 blade
10055501	Tool with EverSharp 110, EverSharp 66 blade and free Wood Screw Starter Punch blade
10055503	Tool with BIX and Eversharp 66/110 cut blade

To learn more visit: www.flukenetworks.com/d814

D-Impactor™ 5-Pair Impact Tool



The D-Impactor 5-pair impact tool easily cuts and terminates five copper pairs on a 110 block. This rugged, easy-to-use tool saves time and minimises hand stress. The patented individually molded blades eliminate the chance of metallic shorts ensuring optimal performance of your network. Lifetime warranty.

- Single reversible blade part
- Ease of use and reversing of cutting blade
- Fewer moving parts allow for smoother push down, less hand stress

Model	Description
10059000	D-Impactor (five-pair 110 impact tool)
10059030	D-Impactor replacement blade

Learn more visit: www.flukenetworks.com/dimpactor

Pro-Tool™ Kits







All the professional tools you need to cut, strip, clean and connect network phone and data lines to blocks and jacks. Bundled together in our sleek form-fitting PVC Dur-A-Grip™ tool pouch—holds your tools securely inside, even upside down. Five tool kit combinations to choose from to meet a multitude of applications.

- All kits include ergonomically designed Dur-a-Grip pouch for convenient tool storage on belt
- D914[™] and D814[™] industry standard punchdown tools make for solid terminations
- Easy-to-use cable stripper quickly rings and slits many types of cable
- Cut and strip wire cleaner and faster with the Electrician's D-Snips

Pro-Tool Kit Model	IS60	IS50	IS40
D914S impact tool	✓	✓	
D814 impact tool			✓
Electrician's D-Snips	✓	✓	✓
Cable stripper	✓	✓	✓
Mini Maglite®	✓		
Dur-a-Grip pouch	✓	✓	✓
EverSharp 66/110 cut blade	✓	✓	✓
Probe pic			✓

Model	Description
11291000	IS40 Pro-Tool kit
11291400	Pro-Tool kit IS40 pouch only
11292000	IS50 Pro-Tool kit
11292400	Pro-Tool kit IS50 pouch only
11293000	IS60 Pro-Tool kit
11293400	Pro-Tool kit IS60 pouch only

To learn more visit: www.flukenetworks.com/protool

Electrical Contractor Telecom Kits

Fluke Networks Electrical Contractor Telecom Kits are comprised of industry standard telecommunications tools and test equipment. Contents include D814™ impact tool, cable stripper, probe pic, Electrican's D-Snip standard



- 4-wire modular adapter and EverSharp™ 66/110 cut blade. Soft carrying case included for easy organisation.
- Choose either Kit I with TS $^{\$}$ 30 Test Set or Kit II with Pro3000 Analog Tone and Probe D814 industry standard punchdown tool for reliable terminations
- EverSharp 66/110 cut blade provides flexibility for different block and jack terminations
- Cable stripper quickly rings and slits many types of cable
- Use the probe pic to check for loose or damaged connections
- Cut and strip wire cleaner and faster with the Electrician's D-Snips
- Connect to jacks for testing with the standard 4-wire modular adapter
- A soft zippered pouch keeps your tools all in one convenient place

Electrical Contractor Telecom Kit	Telecom Kit I	Telecom Kit II
TS30 Test Set with angled bed-of-nails cord	✓	
Pro3000 analog tone and probe		✓
D814 impact tool	✓	✓
Electrician's D-Snips	✓	✓
Cable stripper	✓	✓
EverSharp 66/110 cut blade	✓	✓
Standard 4-wire modular adapter	✓	✓
Probe pic	✓	✓

Kit II

Standard 4-wire modular adapter		✓	✓
Probe pic		✓	✓
Model	Description		
11290000	Electrical Contractor Telecom Kit I (with TS30 Test Set)		
11289000	Electrical Contractor Telecom Kit II (with Pro3000 analog tone and probe kit)		
11289400	Soft case, Electrical Contractor Telecom kit		

To learn more visit: www.flukenetworks.com/ectkit



Telephone Butt-in Test Sets

Complete line of analogue butt-in telephone test sets provides the view you need to ensure telecommunications services

Fluke Networks offers the most comprehensive line of telephone test sets to meet the voice and data demands of telecommunications technicians. Our DropSafe^{IM} reliability and RainSafe^{IM} protection ensure maximum ruggedness, even in the most extreme conditions. Our DataSafe^{IM} technology is vital in preventing interruption of existing data traffic, and our DSL/POTS filtering technology goes one step further to allow testing on the POTS side of a line even while data is present.

We continually improve our line of butt-in test sets to ensure technicians have the right features to match their application needs – with the most flexible options for every budget.

TELEPHONE TEST SET COMPARISON













	1			1		
	TS®54 TDR	TS®22A	TS®22	TS®25D	TS®30 / TS®120*	TS®19
Display—back lit LCD and glow-in- the-the dark keypad	✓			LCD only		
Extended range high-impedance DataSafe operation in monitor mode	✓			√		
High-impedance DataSafe operation in monitor mode	✓	√		√	√	✓
Data lockout protection	✓			√		
Data lockout override	✓			✓		
DSL/POTS filtering technology	✓			✓		
Low/high voltage indication	✓			✓		
Low current (mA) indication				✓		
Over voltage protection	✓	√	✓	✓	√	
Over current protection	√	✓	✓	✓	√	
Two-way speakerphone for true hands-free conversations	✓	√				
One-way amplified speaker for hands-free monitoring	✓	√	√	√		
Audible ringer for callbacks	✓	✓	✓	✓	√	✓
Waterproof—exceeds American Military Spec. MIL-STD-810E	✓					
RainSafe—safe in severe weather conditions	✓	√	√		✓	
DropSafe—passes 20 foot (6 meter) drop test onto concrete	✓	√	√		✓	
Meets Bellcore specifications	✓	✓	✓		√	
Tone and pulse operation	√	✓	✓	✓	✓	✓
Polarity indication in talk mode	√	✓	✓	✓	√	✓
PBX pause button	√	✓	✓	✓		
Stores nine 18-digit numbers in repertory dialer (speed dialing)	✓	√	√	√		
Replaceable 9V battery for powering speaker	✓	√	√	√		

^{*}TS120 for outside North America only. 67/33 break/make ratio.

TS[®]54 TDR Test Set



A three-in-one-TDR, toner and pair identifier-premium, VDV test set

Ten testing functions include:

- TDR-find cable length measurement and locate faults on virtually all types of cable including twisted pair, coaxial, and parallel conductors
- Toner-five separate tones for fast and easy differentiation between multiple wire pairs
- SmartTone®—short the correct pair and tone changes for exact pair identification
- Data indication—warns when data is present on the line
- Voltage indication/measurement—identifies potential line problems
- Current (mA) indication/measurement-verifies sufficient line current
- Caller-ID with Call Waiting CID-verifies functional service
- DTMF Digit Grabbing-isolates faulty customer premise equipment
- Detects dial tone, places and receives calls
- Polarity

TS®30 Test Set



The TS30 test set features the latest in test set case design, at an affordable price. The ergonomic non-slip grip handle provides improved handling of the set in all weather conditions. Includes DataSafe™ operation so technicians can clip onto a line in monitor mode, without disrupting existing data traffic.

- High impedance DataSafe operation in monitor mode
- DropSafe™ reliability passes 20-foot drop test
 RainSafe™ protection in severe weather conditions
- Mute switch
- · Last number redial

Model	Description
30800009	TS30 test set with ABN
30800001	TS30 test set with piercing pin clips

To learn more visit: www.flukenetworks.com/ts30

TS[®]25D LCD Test Set



The TS25D test set features data lockout and lockout override, making you completely safe in talk or monitor mode. The DSL/POTS filtering technology allows you to safely draw dial tone without downing DSL. A built-in analogue tone generator simplifies wire identification with a probe. An amplified speaker makes monitoring the line hands-free, so you can keep working. The Talk Battery function provides voltage to carry voice conversation on non-powered pairs. Also includes Caller-ID and Call-waiting Caller-ID functions. All in a compact unit with an oversised, robust liquid crystal display (LCD) that makes the intuitive, common-sense menus easy-to-read and use.

- Caller-ID and Call-waiting Caller-ID
- · Amplified speakers for hands-free monitoring
- Data lockout and data lockout override
- Tone generator for wire identification
- Talk battery to power voice conversation on dry (non-powered) lines

Model	Description
25501109	TS25D test set with ABN kit (includes pouch and earpiece)
25501009	TS25D test set with ABN
25501004	TS25D test set with 346A plug
25500400	TS25D pouch only
25500300	TS25D battery door with belt clip





TS®19 Test Set



The TS19 test set combines all the essential test set features at an affordable price. This test set was specifically designed for in-house telecom technicians. Its high impedance monitor prevents accidental disruption of service from clipping onto a data line while in Monitor Mode, thus ensuring the integrity of critical data lines. Features such as tone (DTMF) or pulse operation, talk/monitor capabilities, polarity test button and last number redial make this test set the perfect combination of features and price.

- High impedance DataSafe operation in monitor mode
- Tone (DTMF) and pulse operation and last number redial
- · Polarity indication in talk mode

Model	Description
19800009	TS19 test set with ABN
19800003	TS19 test set with banana jacks to alligator clips

To learn more visit: www.flukenetworks.com/ts19



Line Cords and Clips

P4480009	P4480001	P4480004	P4480RJ9	P3218024	P3218028
Line cord with Angled Bed-of- Nails Clips	Line cord with Angled Piercing Pin Clips	Line cord with 346A plug (Central Office)	Line cord with Bed-of-Nails and RJ-11 plug	Line cord with Straight Bed-of- Nails Clips	Line cord with Angled Piercing Pin Clips
Compatible with 52 and 40 Series	Compatible with 52 and 40 Series	Compatible with 52 and 40 Series	Compatible with 52 and 40 Series	Compatible with 20 Series	Compatible with 20 Series
P3218234	P3080009	P1980001	P1980003	P1980007	P1980009
Line cord with Angled Bed-of- Nails Clips	Line cord with Angled Bed-of- Nails Clips	Line cord with Angled Piercing Pin Clips	Line cord with Banana Jacks and Alligator Clips	Line cord with Ground Start cord	Line cord with Angled Bed-of- Nails Clips
Compatible with 20 Series	Compatible with 30 Series	Compatible with 19 Series	Compatible with 19 Series	Compatible with 19 Series	Compatible with 19 Series
S)					
P3218RJ9	P3218442	P2280062	P3218202	P4080248	P4080249
Line cord with Angled Bed-of-Nails Clips and RJ-11 plug	Line cord 471A Plug with Angled Piercing Pin Clips	Ground start cord	Angled Bed-of- Nails, Pkg. 1 each	Standard locking belt clip	Belt clip
Compatible with the TS20 Series	Compatible with all, requires 346A Plug	Component for P1980007	Compatible with all	Compatible with 52 and 40 series	Compatible with 52 and 40 series

Line cord boot only

P3218-418 Black Boots (Pkg. 10) P3218-420 Red Boots (Pkg. 10)

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Contact Us

General product and sales information:

Fluke Australia Pty Ltd.

Locked Bag 5004 Baulkham Hills, NSW 2153 Australia



+61 2 8850-3333



□ auinfo@fluke.com



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