

Clamp Meter selection chart

Job functions	Applications	Recommended clamp		
Plant Maintenance Process Technician/ Electrician Automation Specialist	Multiple placement potential for large facilities allows units to be left in place	 365 True-rms AC Clamp Meter Key features 200 A ac and A dc measurement with fixed jaw Detachable jaw makes accessing wires and viewing the display easier 6000 Ω resistance measurement with continuity Built in flashlight/torch allows for easy illumination and identification of wires True-rms to more accurately measure the actual current, even with distorted wave-forms caused by noisy loads CAT III 600 V 		
Residential Electrician Electrical Contractor Commercial Electrician	Conduct front line troubleshooting of general ac current systems Verify circuit integrity and operation • Measure load current, ac voltage and continuity of switches, fuses and contacts Feeder cables • Check balance and loading of feeder cables	373 True-rms AC Clamp Meter Key features • Measure up to 600 A ac • Measure ac and dc voltage to 600 V • True-rms to more accurately measure the actual current, even with distorted wave forms caused by noisy loads • Includes large backlit display, ac and dc voltage, resistance, continuity, and capacitance • CAT IV 300 V, CAT III 600 V		
Electrical Contractor Commercial Electrician Electric Utility Technician Facility Maintenance Utility Technician	Basic troubleshooting of ac and dc systems • Measure dc current in battery powered devices, security systems, etc. • Measure motor start-up and run current • Capacitance for motor start and run capacitors • Check balance and loading in service panels	374 True-rms AC/DC Clamp Meter Key features • Measure up to 600 A ac and A dc • True-rms to more accurately measure the actual current, even with distorted wave-forms caused by noisy loads • Compatible with the new i2500-18 and i2500-10 iFlex flexible current probes (sold separately), which expands the measurement range to 2500 A ac and provides increased display flexibility • Inrush current mode for repeatable measurement of motor or equipment start-up current • Includes large backlit display, ac and dc voltage, resistance, continuity, MIN/MAX and capacitance • CAT IV 600 V, CAT III 1000 V		
Industrial Electrical Contractor Plant Maintenance HVAC/R Specialist	Advanced troubleshooting of ac and dc systems Large motors and drives, and noisy electrical environments Motor inrush to troubleshoot current protection devices Output of variable speed motors and drives	375 True-rms AC/DC Clamp Meter Key features • 500 mV measurement range to interface with other accessories • Integrated low pass filter and state of the art signal processing allows for use in noisy electrical environments while providing stable readings • Frequency measurement to 500 Hz with both jaw and iFlex • Compatible with the new i2500-18 and i2500-10 iFlex flexible current probes (sold separately), which expands the measurement range to 2500 A ac and provides increased display flexibility • Measure true-rms voltage, capacitance, resistance and continuity • CAT IV 600 V, CAT III 1000 V		

Clamp Meter selection chart cont.

	Job functions	Applications	Recommended clamp		
ical	Electrical Contractor	Working on panels and branch circuits Measure loads on a branch circuit at a panel (including feeder cables, branch	T5-1000 Electrical Tester Key features		
ectr	Facility Maintenance	circuits and neutrals) and the continuity of	Open jaw ac current measurement to 100 A AC and dc voltage		
Щ О	Commercial Electrician	switches, fuses and contacts Measure load side voltage of a breaker or	• T5-600: CAT III 600 V • T5-1000: CAT IV 600 V, CAT III 1000 V		
Comm/Ind Electrical		fuse - Check if a circuit is live before beginning work	Continuity, resistance Rugged and easy to use		
	Facility Maintenance Electrician	Measuring leakage current Check insulation condition and leakage of	 360 AC Leakage Current Clamp Meter Key features Measurement of leakage current with 3 mA range and 1 μA of resolution for accurate monitoring of insulation erosion 		
	Hospital Electrician	circuits and systems			
Φ	Electrical Contractor	Check for leakage in circuits and systems utilizing filters			
Leakage		Testing insulation on live circuits • Evaluate insulation condition on live circuits via leakage current measurements where disconnection is highly inconvenient	 Broad range of measurement from 1 µA up to 60 A, for all installation needs Advanced shielding to ensure accurate results when measuring near other conductors Easy-to-carry, pocket-sized leakage current tester with wide 40 mm (1.5 in) jaw size CAT III 300 V 		
	Industrial/Commercial Maintenance Electrician	Grounding and bonding resistance testing Perform ground loop tests in areas where	 1630 Earth Ground Clamp Meter Key features Measure from 0.025 Ω to 1500 Ω ground loop resistance Large jaw for clamping around the widest range of ground conductors or grounding bars 		
ō	Utility Technician	other ground resistance test techniques are not available			
uno.	Electrical Contractor/ Consultant	Test parts of a multi-grounded systemPeriodically perform quick tests on system			
Earth Ground		grounds as part of a regular preventative maintenance program	Measure ground leakage and ac load currents from 0.2 mA all the way up to 30 A User defined alarm limits for rapid pass/fail type measurements CAT III 300 V		
	Process Technician/ Electrician	Measuring process control signals • Measures 4-20 mA signals without break-	773 Milliamp Process Clamp Meter Key features		
	Automation Specialist/ Commercial Electrician	ing the loop • Check correct operation of PLCs and control	Saves time and money by easily measuring 4-20 mA signals		
Process	Continue da Electrican	systems analog I/O • Source process control signals allow for testing of 4-20 mA signals and 1 to 5 V and 0 to 10 V to test automation I/O • Advanced troubleshooting features simplify loop testing	 Detatchable miniature clamp for tight locations Also measure older 10 to 50 mA signal systems with the 100 mA range Backlit display, spotlight, display hold and zero-reading buttons Eliminates the need for extra 4-20 mA source or voltage equipment when troubleshooting CAT II 300 V 		



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Clamp meter specifications

	Commercial/industrial electrical		Residential/commercial electrical		General purpose		
	T5-600	T5-1000	321	322	365	373	
Measurements	1	1					
AC current	•	•	•	•	•	•	
AC voltage	•	•	•	•	•	•	
Resistance Continuity	•	•	•	•	:		
DC volts	•	•	•	•	•	-	
DC current							
True-rms							
Frequency							
AC + DC voltage							
AC + DC current							
Min/Max/Avg							
4-20 mA (0.01 mA resolution)							
Temperature							
Capacitance						•	
Earth ground loop resistance							
Special features		ı					
Inrush current mode							
Low Pass filter							
Harmonics, power, data logging 18-inch iFlex Flexible Current Probe							
10-inch iFlex Flexible Current Probe							
Remote display							
Flashlight/torch							
Display							
Display hold	•	•	•				
Backlight					•	•	
Graphing display							
Specifications							
Jaw opening	12.9 mm (0.5 in)	12.9 mm (0.5 in)	25.4 mm (1.0 in)	25.4 mm (1.0 in)	18 mm (0.7 in)	32 mm (1.26 in)	
Max wire size	1/0 THHN Cable	1/0 THHN Cable	500 MCM	500 MCM	17 mm (0.67 in)	750 MCM	
Current range ac rms	0 to 100.0 A	0 to 100.0 A	0 to 400.0 A	0 to 400.0 A	0 to 200.0 A	0 to 600.0 A	
Accuracy ac current (50/60 Hz)	3 % ± 3 counts	3 % ± 3 counts	1.8 % ± 5 counts	1.8 % ± 5 counts	2 % ± 5 counts	2 % ± 5 counts	
AC Response	Averaging	Averaging	Averaging	Averaging	True-rms	True-rms	
Current range dc	0 0	0 0	0 0	0 0	0 to 200 A		
Accuracy dc current					2 % ± 5 counts		
Voltage range ac	0 to 600.0 V	0 to 1000 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	
Accuracy ac voltage	1.5 %	1.5 %	1.2 %	1.2 %	2 %	1 % ± 5 counts	
Voltage range dc	± 2 counts 0 to 600.0 V	± 2 counts 0 to 1000 V	± 5 counts	± 5 counts 0 to 600.0 V	± 5 counts 0 to 600.0 V	0 to 600.0 V	
Accuracy dc voltage	1 %	1 %		1 %	2 %	1 %	
	± 1 count	± 1 count		± 5 counts	± 5 counts	± 5 counts	
Resistance range	0 to 1000 Ω	0 to 1000 Ω	0 to 400 Ω	0 to 400 Ω	0 to 6000 Ω	0 to 6000 Ω	
Frequency measurement range							
Unit power							
Auto off	•	•	<u> </u>	-		•	
Auto off Warranty and safety							
Auto off	2 CAT III 600 V	2 CAT IV 600 V,	2 CAT III 600 V	2 CAT III 600 V	3 CAT III 600 V	3 CAT III 600 V,	



General purpose		Industrial electrical		HVAC/R	High end industrial, utility		iFlex accessory	
374	375	376	381	902	353	355	i2500-10/ i2500-18	
•			•	•	•	•		
•	•	•	•	•		•		
•	•	•	•	•		•		
•	•	•	•	•		•		
•	•	•	•	•		•		
•		•	•			•	•	
	•	•	•		•	•	•	
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-	•	•	•	•	•	•	•	
•	•	•	•	•				
		I	I					
•	:	•			•	•	•	
	-	-	-		-	<u> </u>		
Optional	Optional	Included	Included					
Optional	Optional	Optional	Optional					
			•					
•	•	•	•			•		
04 (1.00:)	0.4 (1.00:)	(1.00:)	(1.00:)	00 7 (1.0 :)	IIO (0.0 :)	EO (0.0 :)		
34 mm (1.33 in) 750 MCM	30.5 mm (1.2 in) 750 MCM	58 mm (2.3 in) 750 MCM or three	58 mm (2.3 in)	7.5 mm coil				
750 MGM	750 WOW	750 WOW	750 WOW	750 WOW	500 MCM	500 MCM		
0 to 600.0 A	0 to 600.0 A	0 to 999.9 A	0 to 999.9 A	0 to 600.0 A	0 to 1400 A	0 to 1400 A	0 to 2500 A	
2 % ± 5 counts	1.5 % ± 5 counts	1.5 % ± 5 counts	3 % ± 5 counts					
True-rms	True-rms	True-rms	True-rms	True-rms	True-rms	True-rms	True-rms	
0 to 600.0 A	0 to 600.0 A	0 to 999.9 A	0 to 999.9 A	0 to 200 μA	0 to 2000 A	0 to 2000 A		
2 %	2 %	2 %	2 %	1 %	1.5 %	1.5 %		
± 5 counts 0 to 600.0 V	± 5 counts	± 5 counts	± 5 counts	± 5 counts 600.0 V	± 5 counts	± 5 counts		
1.5 %	0 to 600.0 V 1.5 %	0 to 1000 V 1.5 %	0 to 1000 V 1.5 %	1 %		0 to 600.0 V 1 %		
± 5 counts		± 5 counts						
0 to 600.0 V	0 to 600.0 V	0 to 1000 V	0 to 1000 V	0 to 600.0 V		0 to 1000 V		
	1 %	1 %	1 %	1 % ± 5 counts		1 %		
1 %	+ E garanta	+ E accepta				± 5 counts		
± 5 counts	± 5 counts	± 5 counts	± 5 counts 0 to 60 kQ					
	0 to 6000 Ω	0 to 60 kΩ	0 to 60 kΩ	0 to 9999 Ω	5 to 1000 Hz	0 to 400 KΩ 5 to 1000 Hz	500 Hz	
± 5 counts					5 to 1000 Hz	0 to 400 KΩ	500 Hz	
± 5 counts	0 to 6000 Ω	0 to 60 kΩ	0 to 60 kΩ		5 to 1000 Hz	0 to 400 KΩ	500 Hz	
± 5 counts 0 to 6000 Ω	0 to 6000 Ω 500 Hz	0 to 60 kΩ 500 Hz	0 to 60 kΩ 500 Hz	0 to 9999 Ω	•	0 to 400 KΩ 5 to 1000 Hz		
± 5 counts 0 to 6000 Ω	0 to 6000 Ω 500 Hz	0 to 60 kΩ 500 Hz	0 to 60 kΩ 500 Hz	0 to 9999 Ω		0 to 400 KΩ 5 to 1000 Hz	500 Hz 3 CAT III 1000 V,	



Clamp meter specifications cont.

	Leakage	Process	Earth ground	Power quality
	360*	773	1630	345
	300	113	1030	313
	T T			
Measurements	-	1		
AC current				
AC volts				
Resistance				
Continuity			•	
DC Volts				•
DC current		•		•
True-rms			•	•
Frequency				•
Min/Max/Avg				•
4-20 mA (0.01 mA resolution)		•		
Temperature				
Capacitance				
Earth ground loop resistance				
Special features				
Inrush current mode				
Low Pass filter				
Harmonics, power, data logging				
18-inch iFlex Flexible Current Probe				
10-inch iFlex Flexible Current Probe				
Remote display				
Flashlight/torch				
Display				
Display hold	•	•	•	•
Backlight	•	•		•
Graphing display				
Specifications				
Specifications Jaw opening	40 mm (1.5 in)	4.5mm (0.177 in)	35 mm (1.38 in)	58 mm (2.3 in)
	40 mm (1.5 in) 1250 MCM	4.5mm (0.177 in) 6 AWG	35 mm (1.38 in) 1000 MCM	58 mm (2.3 in) 750 MCM or three 500 MCM
Jaw opening	, ,		. ,	750 MCM or three
Jaw opening Max wire size	1250 MCM		1000 MCM	750 MCM or three 500 MCM
Jaw opening Max wire size Current range ac rms	1250 MCM 0 to 60 A		1000 MCM 0 to 35 A	750 MCM or three 500 MCM 0 to 1400 A
Jaw opening Max wire size Current range ac rms	1250 MCM 0 to 60 A 1 %		1000 MCM 0 to 35 A 2 %	750 MCM or three 500 MCM 0 to 1400 A ± 3 %
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz)	1250 MCM 0 to 60 A 1 % ± 5 counts		1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG	1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 %
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts True-rms	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage Resistance range	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts True-rms	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V ± 1 %
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage Resistance range Frequency measurement range Unit power	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts True-rms	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage Resistance range Frequency measurement range Unit power Auto off	1250 MCM 0 to 60 A 1 % ± 5 counts	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 %	1000 MCM 0 to 35 A 2 % ± 3 counts True-rms	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage Resistance range Frequency measurement range Unit power	1250 MCM 0 to 60 A 1 % ± 5 counts Averaging	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 % ± 5 counts	1000 MCM 0 to 35 A 2 % ± 3 counts True-rms 0 to 1500 Ω	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 15 to 1000 Hz
Jaw opening Max wire size Current range ac rms Accuracy ac current (50/60 Hz) AC Response Current range dc Accuracy dc current Voltage range ac Accuracy ac voltage Voltage range dc Accuracy dc voltage Resistance range Frequency measurement range Unit power Auto off	1250 MCM 0 to 60 A 1 % ± 5 counts Averaging	6 AWG 0 to 99.9 mA 4-20 mA is 0.2 % ± 5 counts	1000 MCM 0 to 35 A 2 % ± 3 counts True-rms 0 to 1500 Ω	750 MCM or three 500 MCM 0 to 1400 A ± 3 % ± 5 counts True-rms 0 to 2000 A ± 1.5 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 0 to 825 V ± 1 % ± 5 counts 15 to 1000 Hz

^{*}Not available for sale in Canada

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Education/Support

ABCs of Clamp Meters

What is a clamp meter and what can it do? What measurements can be made with a clamp meter? How do you get the most out of a clamp meter? Which clamp meter is best suited to the environment the meter will be used in? Find the answers to these questions and more in our Clamp Meter ABCs application note. www.fluke.com/clampABCs

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