

CLAMP METER SELECTION GUIDE



 **FLIR**



Model	FLIR CM42	FLIR CM44	FLIR CM46	FLIR CM72	FLIR CM74	FLIR CM174	FLIR CM275	FLIR CM78	FLIR CM82	FLIR CM83	FLIR CM85	FLIR CM55	FLIR CM57
Product Description	True RMS Clamp Meter	True RMS Clamp Meter with Inrush Current	True RMS Clamp Meter with DC Current	True RMS Clamp Meter	True RMS Clamp Meter with VFD mode	Industrial Thermal Imaging Clamp Meter with IGM™	Industrial Thermal Imaging Clamp Meter with Datalogging, Wireless Connectivity and IGM™	Industrial True RMS Clamp Meter with IR Thermometer and Wireless Connectivity	True RMS Power Clamp	True RMS Power Clamp with Wireless Connectivity	Industrial True RMS Power Clamp with Wireless Connectivity	Flexible Clamp Meter 10"	Flexible Clamp Meter 18"
Market	Residential/Commercial			Commercial/Industrial			Industrial						
IGM Resolution	—	—	—	—	—	80 x 60	160 x 120	IR Thermometer with Laser Pointer	—	—	—	—	—
IGM Temperature Range	—	—	—	—	—	-10°C to 150°C (14°F to 302°F)	-10°C to 150°C (14°F to 302°F)	-20°C to 270°C (-4°F to 518°F)	—	—	—	—	—
Display Counts/Type	6000/ Backlit LCD	6000/ Backlit LCD	6000/ Backlit LCD	6000/ Backlit LCD	6000/ Backlit LCD	6000/ 2" Color TFT	6000/ 2.4" Color TFT	4000/ Backlit LCD	10000/ Backlit LCD	10000/ Backlit LCD	10000/ Backlit LCD	3000/ Backlit LCD	3000/ Backlit LCD
Jaw Opening	1.2 in. (30 mm)	1.2 in. (30 mm)	1.2 in. (30 mm)	1.38 in. (35 mm)	1.38 in. (35 mm)	1.38 in. (35 mm)	1.38 in. (35 mm)	1.70 in. (42 mm)	1.45 in. (37 mm)	1.45 in. (37 mm)	1.77 in. (45 mm)	10 in. (25 cm) Flex Coil	18 in. (45 cm) Flex Coil
AC A Accuracy	±2.0%	±2.0%	±1.8%	±2.0%	±2.0%	±2.0%	±2.0%	±2.5%	±2.0%	±2.0%	±2.0%	±3.0%	±3.0%
AC/DC Voltage	-/ 600.0 V	-/ 600.0 V	-/ 600.0 V	600.0 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	—	—
VFD AC Voltage	600.0 V	600.0 V	600.0 V	—	•	•	•	—	•	•	•	—	—
LoZ AC/DC Voltage	—	—	—	•	•	•	•	—	—	—	—	—	—
AC/DC Current	400.0 A / -	400.0 A / -	400.0 A	600.0 A / -	600.0 A	600.0 A	600.0 A	1000 A	600.0 A	600.0 A	1000 A	3000 A / -	3000 A / -
VFD AC Current	—	—	—	—	•	•	•	—	—	—	—	—	—
Inrush AC Current	—	•	•	—	•	•	•	—	•	•	•	•	•
Resistance	60.00 kΩ	60.00 kΩ	60.00 kΩ	6.00 kΩ	6.00 kΩ	6.00 kΩ	6.00 kΩ	40.00 MΩ	100 kΩ	100 kΩ	100 kΩ	—	—
Capacitance	—	2500 μF	2500 μF	1000 μF	1000 μF	1000 μF	1000 μF	4.00 mF	4.00 mF	4.00 mF	4.00 mF	—	—
Frequency	999.9 Hz	999.9 Hz	999.9 Hz	60.00 kHz	60.00 kHz	60.00 kHz	60.00 kHz	4.00 kHz	10.00 kHz	10.00 kHz	10.00 kHz	—	—
DC μA via Test Leads	—	2000 μA	2000 μA	—	—	—	—	—	—	—	—	—	—
AC/DC Low Current Accu-Tip	• / -	• / -	• / -	—	—	—	—	—	—	—	—	—	—
Temperature	—	-40°C to 400°C (-40°F to 752°F)	-40°C to 400°C (-40°F to 752°F)	—	—	—	—	-20°C to 760°C (-4°F to 1400°F)	—	—	—	—	—
Relative	—	•	•	—	—	—	—	•	—	—	—	—	—
Min/Max/Average	•	•	•	Min/Max	Min/Max	Min/Max	Min/Max	•	•	•	•	—	—
Peak	—	•	•	—	—	—	—	•	•	•	•	—	—
Power / Power Factor	—	—	—	—	—	—	—	—	600 kW / 0.0 to 1.0	600 kW / 0.0 to 1.0	1000 kW / 0.0 to 1.0	—	—
Harmonics / Total Harmonic Distortion (THD)	—	—	—	—	—	—	—	—	1 to 25 / 0 to 99.9	1 to 25 / 0 to 99.9	1 to 25 / 0 to 99.9	—	—
Phase Rotation	—	—	—	—	—	—	—	—	•	•	•	—	—
Non-Contact Voltage Detector (NCV)	•	•	•	—	—	—	—	—	•	•	•	—	—
Drop Proof	2 m	2 m	2 m	1 m	1 m	1 m	2 m	1 m	1 m	1 m	1 m	3 m	3 m
Worklights	—	—	—	•	•	•	•	•	•	•	•	•	•
Data Storage	—	—	—	—	—	—	10 Files (40k readings each), 100 Images	—	—	—	—	20,000 readings	20,000 readings
Bluetooth®/METERLiNK®	—	—	—	—	—	—	•	•	—	•	•	•	•
Safety Category	CAT IV-300V CAT III-600V	CAT IV-300V CAT III-600V	CAT IV-300V CAT III-600V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V	CAT IV-600V CAT III-1000V
MSRP													

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com



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