

## Product Datasheet - Technical Specifications



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# FLIR CM4X

Professional 400A True RMS  
Clamp Meter Family with Accu-Tip™



The FLIR CM4X Clamp Meter Family includes three professional and affordable True RMS meters designed for commercial and residential electricians. The CM42 and CM44 feature AC clamp measurement, and the CM46 offers both AC/DC measurement to meet your unique needs. Each meter is equipped with a bright backlit display for ease of use inside electrical panels. Accu-Tip™ technology delivers amperage measurements on smaller-gauged wires more accurately – to a tenth of a digit. All models offer MAX/MIN/AVG recording, frequency measurement, and electrical field detection to help you determine voltage presence and relative strength of the field. Made with an over-molded, easy-to-grip design, the CM4X clamp meter family is durable enough to withstand a two-meter drop, and the slim form factor is convenient to carry in your toolbag anywhere you go.

## Precise, accurate measurements

*High accuracy and resolution in small panels*

- Accu-Tip enables more accurate amperage measurements on smaller-gauged wires
- MAX/MIN/AVG recording, and frequency and diode measurement
- Data hold, zero function, and low pass filter (VFD) for voltage measurement

## Engineering you can have confidence in

*Built rugged to last you for years to come*

- Durable to withstand a 2-meter drop, and operates at -10 to 50°C (14 to 122°F)
- Large, bright backlit display makes readings easy to see
- Tough, over-molded, easy-to-grip design and slim, portable size

## Professional performance at an affordable price

*Provides all the critical features you need*

- Built to accept up to a 30mm max conductor
- Electrical field detection (NCV) determines if voltage is present and the relative strength of the field for safety
- True RMS professional clamp meters



Accu-Tip enables more accurate amperage measurements

## Specifications

Measurements	CM42	CM44	CM46	Basic Accuracy
DC Voltage	600 V	600 V	600 V	±1.0%
AC Voltage (Digital Low Pass Filter/VFD)	600 V	600 V	600 V	±1.0%
AC + DC Voltage (Digital Low Pass Filter/VFD)	—	—	600 V	±1.2%
Clamp-On AC Current (50-100 Hz) (100-400 Hz)	400 A	400 A	400 A	±1.8% ±2.0%
Accu-Tip Clamp-On AC Current	60 A	60 A	60 A	±1.5%
Clamp-On DC Current	—	—	400 A	±2.0%
Accu-Tip Clamp-On DC Current	—	—	60 A	±2.0%
Frequency	50-400 Hz	50-400 Hz	50-400 Hz	±1.0%
Resistance	60 kΩ	60 kΩ	60 kΩ	±1.0%
Capacitance	—	2500 μF	2500 μF	±2.0%
Diode	2.0 V	2.0 V	2.0 V	±1.5%
DCμA	—	2000 μA	2000 μA	±1.0%
Temperature	—	-40°C to 400°C (-40°F to 752°F)	-40°C to 400°C (-40°F to 752°F)	±1.0%
General Meter				
Display	3-5/6 digits 6000 counts			
Operating Temperature	-10°C to 50°C (14 to 122°F)			
Continuity	10Ω < & < 250Ω			
Recording	Min / Max / Avg			
Backlight LCD	Yes			
Drop Test	2m			
Certifications	UL , CE			
Category	CAT IV 300V / CAT III 600V			
Jaw Opening	30 mm Max			
NCV	Yes			
Warranty	Limited Lifetime			
Battery Type	2x AAA			

Ordering Information	UPC
FLIR CM46 400A AC/DC Digital TRMS Clamp Meter with Type K	793950377550
FLIR CM44 400A AC Digital TRMS Clamp Meter with Type K	793950377529
FLIR CM42 400A AC Digital TRMS Clamp Meter	793950374207
FLIR TA55 Line Splitter	793950377550
FLIR TA80 Premium Silicone Test Leads	793950377802
FLIR TA70 Alligator Clips	793950377703
FLIR TA60 Thermocouple Probe with Adapter	793950377604

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