

Product Datasheet - Technical Specifications



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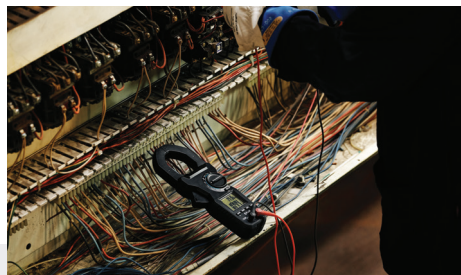
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2000 A AC/DC UTILITY CLAMP METER

FLIR CM94™

The CM94 clamp meter is designed to tackle high-current measurements in demanding utility and industrial job sites. Its oversized, 55 mm jaw can securely clamp around conductor wires and busbars for accurate readings up to 2000 A AC & DC. Designed with a CAT IV-1000 V safety rating, the CM94 is ready to work on relays, distribution panels, and switchgear as well as service conductors, feeders, and production power lines. VFD mode allows you to tackle noisy signal environments to ensure correct measurements when working on large motors and motor controls. Utilities and industrial electrical technicians demand the best, and FLIR delivers with the rugged and dependable CM94 clamp meter.



GREATER SAFETY SO YOU CAN FOCUS ON RESULTS

Get the right tool for high current jobs with improved safety built in

- CAT IV-1000 V rating protects from dangerous transient overvoltage near utility service equipment
- Get accurate current readings on high current equipment up to 2000 A AC/DC
- Eliminate errors from residual ghost voltage using LoZ (low impedance) mode

PACKED WITH THE FUNCTIONS YOU NEED

This full-featured clamp meter saves time and helps you troubleshoot effectively

- Trust accurate AC voltage and current measurements with True RMS, LoZ, and VFD mode to filter signal noise
- Troubleshoot connections and components with a Continuity test mode
- Measure resistance, frequency, and temperature
- Work your way with both auto- and manual-ranging settings

THE RIGHT TOOL FOR INDUSTRIAL JOBS

The FLIR CM94 features an oversized jaw to clamp around large conductors or multiple conductors

- Generous jaw opening of 55 mm (2.2 in)
- Perfect for industrial electricians, utility workers, and electrical contractors
- Ergonomic design is easy to hold with thumb dial for one-hand operation
- Bright, large backlit 6000 count display that's easy to read in any conditions

SPECIFICATIONS

Basic measurement capabilities

Safety category rating	CAT IV-1000 V
True RMS	Yes

Features

Data hold	Yes
Relative DC zero	Yes
LoZ mode (auto range)	Yes
VFD	Yes
Jaw size	55 mm (2.2 in) max
Non-contact voltage (NCV)	Yes

Measurement and analysis

	Range & resolution	Basic accuracy
AC current	200.0, 2000 A	±2%
DC current	200.0, 2000 A	±2%
AC voltage	6.000, 60.00, 600.0, 1000 V	±1.2% / 5d
AC voltage (digital low pass filter - VFD)	6.000, 60.00, 600.0, 1000 V	±2%
LoZ mode AC voltage	6.000, 60.00, 600.0, 1000 V	1.5%
DC voltage	6.000, 60.00, 600.0, 1000 V	±0.5%
LoZ mode DC voltage	6.000, 60.00, 600.0, 1000 V	1.3%
Frequency	40.00 Hz to 400.0 Hz (ACA) 50.00 Hz to 400.0 Hz (ACV)	±1% ±1%
Resistance	600.0, 6.000 k, 60.00 kΩ 600.0 kΩ 6.000 M 40.00 MΩ	±0.5% ±0.8% ±1.2% ±2.3%
Diode test	1.000 V	±1.0%
Capacitance	60.00 nF, 600.0 nF, 6.000 μF, 60.00 μF, 6000.0 μF, 2000 μF	±2.0%
Temperature	-50°C to 1000°C (-58°F to 1832°F)	±0.3%
Continuity	10 to 200 Ω, 2 kHz buzzer	

Display

Screen	3 ⁻⁵ / ₆ digits 6000 counts 3 ⁻¹ / ₂ digits 1999 counts for Hz
Backlight	Yes
Auto power off	34 minutes
Overload indication	"OL" or "-OL"
Low battery indication	Yes

General

Operating temperature	-10°C to 50°C (14°F to 122°F)
Operating relative humidity	Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearly to 50% relative humidity at 50°C (122°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F) <80% RH (with battery removed)
Drop Test	2 m (6.5 ft)
IP rating	IP40
Certifications	UL, CE, CSA, RCM
Battery type	2× AA
Size (L × W × H)	269 × 106 × 51 mm (10.6 × 4.2 × 2.0 in)
Weight	700 g (24.7 oz)
Box contents	Test lead set, quick start guide, manual, soft carrying pouch, banana plug Type-K thermocouple

Specifications are subject to change without notice.

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