Our selection of high-quality professional and industrial clamp meters includes models with built-in thermal imaging—we call it IGM (Infrared Guided Measurement). FLIR clamp meters enhanced with IGM provide a fast, reliable way to identify hot spots and overloaded circuits from a safe distance.

Use the power of thermal imaging to catch failing components early and pinpoint the source of problems for further testing and investigation.

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Whether you are a commercial, industrial, or residential electrician, or provide maintenance and repair for HVAC or solar installations, FLIR clamp meters will help you maximize safety and efficiency.
Full color IPS LCD display

Thermal imager for non-contact temperature measurement
CM275 - 160 x 120 imager
CM174 - 80 x 60 imager

IGM button activates thermal imaging

Non-contact voltage detection

Bright LED worklight

Intuitive menu system

Store up to 10K scalar measurements or 100 images

Laser pinpoints exact hot spot locations
The CM275 provides METERLiNK® communication with mobile devices and compatible FLIR cameras.

Replace batteries without any tools.

CM174/275
INDUSTRIAL IMAGING CLAMP METERS WITH IGM

Work faster, safer, and more efficiently with the unique combination of onboard thermal imaging and a wide range of electrical measurement features.

KEY FEATURES
- Scan entire targets with thermal camera to find hidden electrical issues
- Pinpoint exact hot spot locations with laser or crosshairs
- Use advanced electrical features including VFD mode, True RMS, and LoZ
- Expand measurement capabilities to 3000 A AC with FLIR Flex Clamp accessories (TA72/TA74)

CM275 UNIQUE FEATURES
- See greater detail with 160 x 120 (19,200 pixel) thermal detector—2x the resolution of the CM174
- Store electrical measurements and thermal images internally for later review
- Streamline documentation and sharing by connecting wirelessly to the FLIR Tools® Mobile App
Large illuminated display

AC/DC current measurements

Side-mounted dial for one-handed use

Includes True RMS, LoZ, Continuity Test, Diode Test

METERLiNK® communication with mobile devices

Internal memory for datalogging

Solar industry spec MC4 test lead connectors

600 A current measurements
Photovoltaic (PV) installers can trust this rugged solar clamp meter to accelerate and simplify PV panel testing at new and existing sites. It comes standard with quick-connect MC4 test leads for safe and easy troubleshooting on residential and commercial solar equipment.

**CM65**

**TRUE RMS 600 A SOLAR CLAMP METER**

**KEY FEATURES**

- Avoid connection errors and simplify testing with MC4 test leads
- Get precise readings every time with True RMS and ±1.5% accuracy
- Eliminate residual ghost voltage with LoZ (low impedance) mode
- Share results on-the-go with customers or managers using FLIR Tools® Mobile
- Datalog readings to internal memory
- View readings clearly on the large-digit, backlit LCD display
- See meter readings on mobile devices using METERLink
2000 A current measurements

Includes True RMS, LoZ, VFD, Continuity Test, Diode Test

Oversized jaws open 55 mm (2.2 in)

Side-mounted dial for one-handed use

Large illuminated display

2 m (6.5 ft) drop-test durability

AC/DC current measurements
CM94
2000 A AC/DC UTILITY CLAMP METER

The CM94 tackles high-current measurements in demanding utility and industrial job sites with 2000 A AC/DC range, oversized jaws for oversized conductors, drop-test protection and a CAT IV-1000 V safety rating. This full-featured clamp meter delivers results for utility and industrial electricians.

KEY FEATURES

• Take on any current measurements up to 2000 A AC/DC
• Get the most accurate readings on VFD-controlled equipment with VFD mode
• Eliminate residual ghost voltage with LoZ (low impedance) mode
• Survives tumbles off a ladder or into a utility vault with 2 m drop protection
• View readings clearly on the large-digit, backlit LCD display
These industrial-grade clamp meters offer advanced power analysis and variable frequency drive (VFD) filtering functions for superior accuracy and reliable performance.

KEY FEATURES

- Get the most accurate readings on VFD-controlled equipment with VFD mode
- Conduct system-level performance analysis with advanced power efficiency and harmonics measurements
- Capture fast AC Current spikes during appliance start-up with inrush mode
- Ensure that the motor and power source are in alignment with phase rotation testing

CM83 and CM85 UNIQUE FEATURES

- Remote viewing on smartphones and tablets via Bluetooth®
- Wirelessly embed readings into thermal images on compatible FLIR cameras with METERLiNK
CM78

1000 A CLAMP METER WITH IR THERMOMETER

A safe and capable combination tool that is ideal for the electrician who works on high-powered equipment and temperature systems.

KEY FEATURES

- Take fast, non-contact measurements on panels, conduits, and motors with the integrated IR thermometer
- Overcome poor lighting conditions with the powerful LED lamps that can serve as a primary worklight
- Connect the meter to your compatible smartphones and tablets via Bluetooth and FLIR Tools Mobile
- View and share data from a mobile device via Bluetooth
- METERLiNK technology wirelessly integrates electrical readings onto your infrared images taken with METERLiNK-enabled FLIR thermal cameras
CM72/74
COMMERCIAL CLAMP METERS

Made with a narrow jaw and high-powered LED worklights, the CM72 (AC) and CM74 (AC/DC) make it easier to take measurements in dark, crowded panels and cabinets.

KEY FEATURES
- Easily access wiring in crowded panels and cabinets with the narrow clamp jaw
- Carry the light, compact meter in your back pocket
- Overcome poor lighting conditions with the dual bright high-powered LED worklights
- View readings clearly on the large-digit, backlit LCD display
- Reduce slippage with the rubberized double molded hand grips
- True RMS provides accurate AC measurements

CM74 UNIQUE FEATURES
- Advanced electrical features including: LoZ, VFD Mode, Inrush, Smart Diode with Disable
- AC/DC current measurements
3 m drop-tested durability

10-inch flexible coil clamp

Backlit display

Bright LED worklights

METERLINK communication with mobile devices and compatible FLIR cameras

18-inch flexible coil clamp

3 m drop-tested durability

Backlit display
CM55/57
FLEXIBLE CLAMP METERS

Take measurements in tight or awkward spots with these narrow and flexible coil clamps. With Bluetooth communication for remote viewing and data transfer to iOS® and Android™ devices via the FLIR Tools Mobile App, analyze and share data fast right from the jobsite.

KEY FEATURES
• Snake the coil around obstacles with ease, even in deep, crowded cabinets
• Take multiple conductor measurements with True RMS AC Current up to 3,000 Amps
• Pinpoint equipment start-up problems with the inrush current function
• Illuminate dark cabinets with the built-in dual LED worklights

CHOOSE YOUR FLEXIBLE COIL LENGTH
• CM55 – 10 in (25.4 cm) for easy maneuverability and compact convenience
• CM57 – 18 in (45.72 cm) for larger and multiple conductor measurements, double-wrap requirements, and deeper access
Non-contact voltage detection
AC current measurement
AC/DC voltage measurement
2 m drop-tested durability
Accu-Tip™ technology for increased accuracy
Bright backlit display
AC/DC current measurement
AC/DC voltage measurement
Accu-Tip™ - take AC, DC, AC+DC measurements
2 m drop-tested durability
AC current measurement
AC/DC voltage measurement
These affordable clamp meters feature Accu-Tip technology, allowing you to take the most accurate amperage measurements on smaller-gauged wires – to a tenth of a digit!

KEY FEATURES
- Accu-Tip enables more accurate amperage measurements on smaller-gauged wires
- Use the large, bright backlit display to help you see readings inside of dark electrical panels
- Carry the durable, lightweight meters in your tool bag everywhere you go
- Determine voltage presence and relative strength of the field with Max/Min/Avg recording, frequency, and electrical field detection

CM44 and CM46 UNIQUE FEATURES
- CM44 and CM46 feature Peak-rms inrush current, capacitance, microAmp DC current, temperature measurements and relative/DC zero functions
- CM46 performs AC+DC voltage measurements and clamp-on DC current measurements
## Technical Specifications

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**Notes:**
- IGM Resolution: — indicates not applicable.
- Temperature Range: °C to °F.
- Display Counts/Type: LCD for digits, Color for larger display.
- Jaw Opening: (mm) for inches.
- AC/DC Voltage: (V) for volts.
- Resistance: (kΩ) for kilohms.
- Capacitance: (µF) for microfarads.
- Frequency: (kHz) for kilohertz.
- Temperature: °C to °F.
- Min/Max/Average: • indicates available, not applicable otherwise.
- Peak: not applicable.
- Power/Factor: not applicable.
- Harmonics: not applicable.
- Phase Rotation: not applicable.
- Non-Contact Voltage Detector (NCV): not applicable.
- Worklights: not applicable.
- Data Storage: not applicable.
COMPLETE YOUR TOOLBAG

FLIR has a full line of products to make your job easier, including thermal cameras, voltage detectors, digital multimeters, and IR thermometers.

Check out all that FLIR has to offer at www.flir.com

ACCESSORIES

FLIR has all the right accessories to help you maximize your benefits from your clamp meters, including:

**TA80 CAT IV Test Leads**
1000 V, 10 A test probes with gold-plated tips for professional precision.

**TA55 Line Splitter**
Provides easy and safe measurements of current and voltage from two or three wire outlets. Standard North American 3-prong plug. (For US type outlets only).

**TA52 Magnetic Mount**
Designed for the FLIR CM174, CM74, and CM72 clamp meters, the low profile TA52 firmly attaches to the meter’s tripod mount and stores easily.

**TA42 Belt Clip**
Designed for use with the FLIR CM174, CM74, and CM72 clamp meters, the low-profile clip securely attaches to the meter’s tripod mount.

**TA10-F Case**
Pouch to carry your meter and accessories. Compatible with FLIR DM9x, TA7x, select CM5x meters.

**TA11 Case**
Pouch to carry your clamp meter and accessories. Compatible with FLIR CM78 and CM8x meters.

**TA15 Universal Soft Sided Case**
Pouch to carry your clamp meter and accessories. Compatible with any FLIR clamp meter and the TA7x Universal Flex current probe accessory.