



INDUSTRIAL IMAGING CLAMP METERS

FLIR CM275™

The FLIR CM174 and CM275 clamp meters combine thermal imaging with electrical measurement into powerful inspection, troubleshooting, and diagnostic tools. Through Infrared Guided Measurement (IGM™), they provide a fast, reliable way to identify hot spots and overloaded circuits from a safe distance. Confirm your findings with the clamp meters' wide range of functions plus temperature readings. The FLIR CM275 is Bluetooth-enabled for wireless transfer of thermal images and data via METERLiNK® to mobile devices running the FLIR Tools® mobile app.

www.agilemicrosys.co.in



TROUBLESHOOT FASTER & SAFER

Identify electrical issues quickly with the power of IGM

- Scan entire targets for electrical issues with up to 160 × 120 (CM275) thermal resolution
- Safely check for live connections using non-contact temperature measurement
- Pinpoint exact hot spot locations with laser or crosshairs
- Easily reach difficult, dark locations thanks to narrow jaw and built-in worklights



DIAGNOSE EFFICIENTLY

Quickly verify problems, check loads, and validate hot spots

- Diagnose complex systems with high and low voltage measurement capabilities
- Use advanced electrical features including VFD mode, True RMS, and LoZ
- Expand measurement capabilities to 3000 A AC with FLIR Flex Clamp accessories
- Rely on the protection of CAT IV-600V, CAT III-1000V safety ratings



DOCUMENT & SHARE RESULTS

Store data or share wirelessly for improved workflow

- Store electrical measurements and thermal images internally, for later review*
- Simplify data and thermal imaging collection and produce instant reports by connecting via METERLiNK to a smartphone or tablet running the FLIR Tools app*

* FLIR CM275 model only.

SPECIFICATIONS

| Thermal Imaging | | | Additional Measurements | | |
|---------------------------------|---|---|--|--|--|
| | CM174 | CM275 | | CM174 | CM275 |
| IR Resolution | 80 × 60 (4,800 pixels) | 160 × 120 (19,200 pixels) | Continuity Check | <30 Ω beeper on, >150 Ω beeper off | <30 Ω beeper on, >150 Ω beeper off |
| Thermal Imaging Detector | FLIR Lepton® microbolometer | FLIR Lepton® microbolometer | Measuring Rate | 3 samples per second | 3 samples per second |
| Temperature Sensitivity | 150 mK | 150 mK | Min/Max | Yes | Yes |
| Emissivity Settings | 4 Presets with custom adjustment | 4 Presets with custom adjustment | General Information | | |
| Temperature Accuracy | ±5.4°F (±3°C) or ±3% of reading; whichever is greater | ±5.4°F (±3°C) or ±3% of reading; whichever is greater | Connectivity | – | Bluetooth® |
| Temperature Range | 14°F to 302°F (-10°C to 150°C) | 14°F to 302°F (-10°C to 150°C) | Data Logging & Storage | – | 10 sets of 40k scalar measurements, 100 images |
| Field of View | 50.0° × 38.6° | 50.0° × 38° | Jaw Opening | 35 mm (1.38 in), 1250 MCM | 35 mm (1.38 in), 1250 MCM |
| Laser Pointer | Yes | Yes | Auto Power Off | Yes | Yes |
| Focus | Fixed | Fixed | Worklights | Yes | Yes |
| Thermal Imaging Palette | Iron, Rainbow, Grayscale | Iron, Rainbow, Grayscale | Display Size | 2.0 in TFT screen | 2.4 in TFT screen |
| Measurements-Both Models | | | Battery | 4 AAA batteries | 3 AA batteries; optional TA04 Li-Poly rechargeable battery |
| True RMS | Yes | | Drop Test | 2 m | 2 m |
| Auto-ranging | Yes, with manual range option | | Safety Category Rating | CAT III-1000V, CAT IV-600V | CAT III-1000V, CAT IV-600V |
| | Range | Basic Accuracy | Size (H × W × L) | 43 × 89 × 241 mm (1.7 × 3.5 × 9.5 in) | 48.5 × 97 × 255 mm (1.9 × 3.8 × 10 in) |
| AC / DC Voltage | 1000 V | ±1.0% | Weight | 426 g (15 oz) | 460 g (16 oz) |
| VFD AC Voltage | 1000 V | ±1.0% | Warranty | 10 year on product and detector | 10 year on product and detector |
| AC / DC LoZ V | 1000 V | ±1.0% | Box Contents | | |
| AC / DC Current | 600.0 A | ±2.0% | Clamp Meter, batteries, silicone test leads, soft carrying case (CM275 only) | | |
| VFD AC Current | 600.0 A | ±2.0% | Ordering Information | | |
| AC Inrush | 600.0 A | ±3.0% | | | Order # |
| Resistance | 6.000 kΩ | ±1.0% | FLIR CM174 Imaging 600A AC/DC Clamp Meter with IGM | 793950371749 | |
| Capacitance | 1000 μF | ±1.0% | FLIR CM275 Imaging Clamp Meter with Datalogging, Connectivity and IGM | 793950372753 | |
| Diode Test | 1.5 V | ±1.5% | | | |
| Flex Input AC A | 3000 A | ±1.0% | | | |
| Flex Input Frequency Counter | 10.00 kHz | ±0.1% | | | |

Specifications are subject to change without notice.

AUTHORISED PARTNER



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NASDAQ: FLIR

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