



IMAGING TRMS MULTIMETER

FLIR DM166™

The FLIR DM166 is the most affordable multimeter with built-in thermal imaging – a must-have tool for commercial electricians, automation, electronics, and HVAC technicians. Featuring Infrared Guided Measurement (IGM™) powered by an 80 x 60 FLIR thermal imager, the DM166 visually guides you to the precise location of temperature anomalies and potential problems faster, more safely, and efficiently. The feature-packed multimeter is an ideal tool for troubleshooting and diagnosing complex issues in both high-voltage and low-voltage applications.

www.flir.com/professionalDMMs



TROUBLESHOOT FASTER

One tool gets the job done

- Quickly scan for overheating components with IGM
- Diagnose faults with broad DMM test functions
- Troubleshoot easier with the unique combination of onboard thermal imaging and traditional DMM test functions



WORK SAFER

Identify energized and potentially faulty equipment from a safe distance

- Safely check for live connections using non-contact temperature measurement
- Carefully measure voltage with integrated non-contact voltage detection
- Work with peace of mind knowing your meter has a CAT III-600V, CAT IV-300V safety rating



DIAGNOSE PROBLEMS MORE EFFICIENTLY

Rich feature set covers both high-voltage and low-voltage applications

- Reliably take 600 V AC/DC voltage measurements and 10 A AC/DC current measurements
- Remove high-frequency noise that affects readings with the Variable Frequency Drive (VFD) measurement function
- Precisely measure resistance up to 60 MΩ, frequency up to 50 KHz, and capacitance up to 10,000 μF

SPECIFICATIONS

| Thermal Imaging | DM166 | |
|----------------------------------|----------------------------------|----------------|
| IR Resolution | 80 x 60 pixels (4,800 pixels) | |
| Thermal Imaging Detector | FLIR Lepton® microbolometer | |
| Temperature Sensitivity | ≤ 150 mK | |
| Emissivity Settings | 4 presets with custom adjustment | |
| Temperature Accuracy | 3°C or 3% | |
| Temperature Range | 14° F to 302°F (-10C to 150° C) | |
| Field of View | 50° x 38° | |
| Laser Pointer | Yes | |
| Focus | Fixed | |
| Thermal Imaging Palette | Iron, Rainbow, Grayscale | |
| Level & Span | Auto | |
| Measurements | | |
| True RMS | Yes | |
| | Range | Basic Accuracy |
| AC / DC Volts | 600.0 V | ±0.7% / 0.5% |
| AC / DC mVolt | 600.0 mV | ±1% / 0.3% |
| VFD AC Volts | 600.0 V | ±1.0% |
| AC / DC Amps | 10.00 A | ±1.0% / 0.7% |
| AC / DC mAmps | 600.0 mA | ±1.0% / 0.7% |
| AC / DC μAmps | 6000 μA | ±1.5% / 1.0% |
| Resistance | 6.000 MΩ | ±0.9% |
| | 60.00 MΩ | ±1.5% |
| Capacitance | 2.000 mF | ±2.0% |
| | 10.00 mF | ±5.0% |
| Diode Test | 3.000 V | ±0.9% |
| Frequency Counter | 50.00 kHz | ±0.3% |
| Temperature, Type-K Thermocouple | -40°F to 752.0°F | ±1.0% + 3°F |
| | -40°C to 400°C | ±1.0% + 1.5°C |

| Additional Measurements | DM166 |
|-------------------------|--|
| Continuity Check | 30 Ω and 480 Ω |
| Measuring rate | 5 samples per second |
| General Information | |
| Auto Power Off | Yes |
| Display Size | 2.4 in TFT screen |
| Battery | 3 AA batteries; optional TA04 Li-Poly rechargeable battery |
| Drop Test | 3 m |
| IP Rating | IP40 |
| Safety Category Rating | CAT III-600V, CAT IV-300V |
| Size (L x W x H) | 190 × 86.4 × 48.3 mm (7.5 × 3.4 × 1.9 in) |
| Weight | 428.3 g (15.1 oz) |
| Warranty | 10 year on product and detector |

| Box Contents | |
|--------------|---|
| | DM166, L91 lithium batteries, silicone test leads, soft carrying case |

| Ordering Information | Order # |
|---|--------------|
| FLIR DM166 Thermal Imaging TRMS Multimeter with IGM | 793950391662 |

For a complete list of available accessories, go to:
flir.com/store/instruments/testaccessories

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

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