SFLIR



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.



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 M Ω , frequency up to 50 KHz, and capacitance up to 10,000 µF

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SPECIFICATIONS

10.00 A

600.0 mA

6000 µA

6.000 MΩ 60.00 MΩ

2.000 mF

10.00 mF

3.000 V

50.00 kHz

-40°F to 752.0°F

-40°C to 400°C

AC / DC Amps AC / DC mAmps

AC / DC µAmps

Resistance

Capacitance

Diode Test

Frequency Counter

Thermocouple

Temperature, Type-K

±1.0% / 0.7%

±1.0% / 0.7%

±1.5% / 1.0%

±0.9%

±1.5%

±2.0%

±5.0%

±0.9%

±0.3%

±1.0% + 3°F

±1.0% + 1.5°C

Thermal Imaging	DM166		Additional Measurements	DM166
IR Resolution	80 x 60 pixels (4,800 pixels)		Continuity Check	30 Ω and 480 Ω
Thermal Imaging Detector	FLIR Lepton® microbolometer		Measuring rate	5 samples per second
Temperature Sensitivity	≤ 150 mK		General Information	
Emissivity Settings	4 presets with custom adjustment		Auto Power Off	Yes
Temperature Accuracy	3°C or 3%		Display Size	2.4 in TFT screen
Temperature Range	14° F to 302°F (-10C to 150° C)		Battery	3 AA batteries; optional TA04 Li-Poly rechargeable battery
Field of View	50° x 38°		Drop Test	3 m
Laser Pointer	Yes		IP Rating	IP40
Focus	Fixed		Safety Category Rating	CAT III-600V, CAT IV-300V
Thermal Imaging Palette	Iron, Rainbow, Grayscale		Size (L x W x H)	190 × 86.4 × 48.3 mm (7.5 × 3.4 × 1.9 in)
Level & Span	Auto		Weight	428.3 g (15.1 oz)
Measurements			Warranty	10 year on product and detector
True RMS	Yes		Box Contents	
	Range	Basic Accuracy		DM166, L91 lithium batteries, silicone test leads, soft
AC / DC Volts	600.0 V	±0.7% / 0.5%		carrying case
AC / DC mVolt	600.0 mV	±1% / 0.3%		
VFD AC Volts	600.0 V ±1.0%		Ordering Information	

FLIR DM166 Thermal Imaging TRMS Multimeter with IGM

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