\$FLIR



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		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	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 red	
Field of View	50° x 38°			battery	
Laser Pointer	Yes		Drop Test	3 m	
Focus	Fixed		IP Rating	IP40	
Thermal Imaging Palette	Iron, Rainbow, Grayscale		Safety Category Rating	CAT III-600V, CAT IV-300V	
Level & Span	Auto		Size (L x W x H)	190 × 86.4 × 48.3 mm (7.5 × 3.4 × 1.9 in)	
Measurements			Weight	428.3 g (15.1 oz)	
True RMS	Yes		Warranty	10 year on product and detector	
	Range	Basic Accuracy	Box Contents	Box Contents	
AC / DC Volts	600.0 V	±0.7% / 0.5%		DM166, L91 lithium batteries, silicone te carrying case	
AC / DC mVolt	600.0 mV	±1% / 0.3%			
VFD AC Volts	600.0 V	±1.0%	Ordering Information	Order #	
AC / DC Amps	10.00 A	±1.0% / 0.7%	FLIR DM166 Thermal Imaging	793950391662	
AC / DC mAmps	600.0 mA	±1.0% / 0.7%	TRMS Multimeter with IGM		
AC / DC µAmps	6000 µA	±1.5% / 1.0%		For a complete list of available accessories, go to: flir.com/store/instruments/testaccessories	
Resistance	6.000 MΩ 60.00 MΩ	±0.9% ±1.5%	flir.com/store/instruments/testac		
Capacitance	2.000 mF 10.00 mF	±2.0% ±5.0%			
Diode Test	3.000 V	±0.9%			
Frequency Counter	50.00 kHz	±0.3%			
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Temperature, Type-K Thermocouple

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

-40°F to 752.0°F

-40°C to 400°C

±1.0% + 3°F

±1.0% + 1.5°C

CORPORATE

HEADQUARTERS FLIR Systems, Inc. 27700 SW Parkway Ave. Wilsonville, OR 97070 PH: +1 877.773.3547

NASHUA FLIR Systems, Inc. 9 Townsend West Nashua, NH 03063 USA PH: +1 866.477.3687



EUROPE FLIR Systems Luxemburgstraat 2 2321 Meer Belgium PH : +32 (0) 3665 5100

UNITED KINGDOM

FLIR Systems UK 2 Kings Hill Av. - Kings Hill West Malling - Kent ME19 4AQ United Kingdom Tel. : +44 (0)1732 220 011

The World's Sixth Sense*

www.flir.com NASDAQ: FLIR

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