FLIR

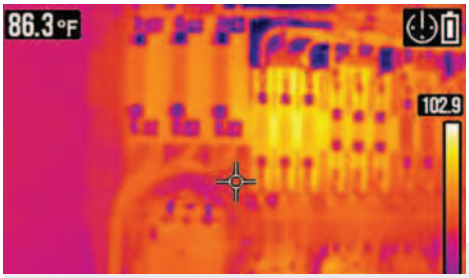


INDUSTRIAL IMAGING MULTIMETERS

FLIR DM284™/285™

The FLIR DM284 and DM285 are industrial, all-in-one True RMS digital multimeters and thermal imagers that can show you exactly where a hot spot or temperature anomaly is for faster troubleshooting. Featuring Infrared Guided Measurement (IGM™) powered by a built-in 160 × 120 FLIR thermal imager, the meters visually guide you to the precise location of a problem. You'll pinpoint issues faster, more safely, and efficiently. Both multimeters are ideal for inspecting industrial-electrical, mechanical, HVAC/R, and electronic systems, and can be used for both benchtop electronics or in the field. The DM285 is Bluetooth-enabled for wireless transfer of thermal images and data via METERLiNK® to mobile devices running the FLIR Tools® mobile app.

flir.com/IGM-Multimeters



WORK SAFER AND SMARTER

Thermal imaging allows you to quickly scan for overheating system components, then use the DMM test functions to troubleshoot and diagnose the fault

- Identify energized and faulty equipment from a safe distance with non-contact temperature measurement
- Simplify data and thermal imaging collection and produce instant reports by connecting via METERLiNK to a smartphone or tablet running the FLIR Tools app*
- Save electrical parameter data and thermal images with onboard data storage*



TROUBLESHOOT CHALLENGING PROBLEMS EFFECTIVELY

Fully loaded with features for high and low voltage applications

- Solve challenging problems with the 18-function DMM including VFD mode, True RMS, LoZ, NCV, a built-in worklight, and laser pointer
- Measure voltage, current, frequency, resistance, continuity, diode, capacitance, and temperature
- Operate easily with an intuitive menu system



DESIGN AND FUNCTIONALITY

An all-in-one tool that's built to last

- Rely on the meters' drop-tested durability in any working condition
- Change the battery quickly and easily with the 'no tool' battery compartment*
- See readings clearly on the TFT display with a wide viewing angle*

*DM285 Only.

SPECIFICATIONS

Thermal Imaging	DM284	DM285
IR Resolution	160 × 120 (19,200 pixels)	160 × 120 (19,200 pixels)
Thermal Imaging Detector	FLIR Lepton® microbolometer	FLIR Lepton® microbolometer
Temperature Sensitivity	≤150 mK	≤150 mK
Emissivity Settings	4 presets with custom adjustment	4 presets with custom adjustment
Temperature Accuracy	3°C or 3% whichever is greater	3°C or 3% whichever is greater
Temperature Range	14°F to 302°F (-10°C to 150°C)	14°F to 302°F (-10°C to 150°C)
Field of View	50° × 38°	50° × 38°
Laser Pointer	Yes	Yes
Focus	Fixed	Fixed
Thermal Imaging Palette	Iron, Rainbow, Grayscale	Iron, Rainbow, Grayscale
Level & Span	Auto	Auto

Measurements-Both Models		
True RMS	Yes	
	Range	Basic Accuracy
AC / DC Voltage	1000 V	±1.0% / 0.09%
AC / DC mV	600.0 mV	±1.0% / 0.5%
VFD AC Voltage	1000 V	±1.0%
AC / DC LoZ V	1000 V	±2.0%
AC / DC Current	10.00 A	±1.5% / 1.0%
AC / DC mA	400.0 mA	±1.5% / 1.0%
AC / DC µA	4,000 µA	±1.0%
Resistance	6.000 MΩ 50.00 MΩ	±0.9% ±3.0%
Capacitance	10.00 mF	±1.9%
Diode Test	1.500 V	0.400 V to 0.800 V, typical reading
Flex Clamp Range	3000 A AC (Optional TA72/74)	±3.0% + 5 digits
Frequency	100.00 kHz	±0.1%
Temperature, Type-K Thermocouple	-40.0°F to 752.0°F -40.0°C to 400.0°C	±1.0% + 5.4°F ±1.0% + 3°C

Additional Measurements	DM284	DM285
Continuity Check	600 Ω	20 Ω and 200 Ω
Measuring Rate	3 samples per second	3 samples per second
Min/Max/Avg	Yes	Yes
General Information		
Connectivity	–	Bluetooth®
Data Logging & Storage	–	10 sets of 40k scalar measurements, 100 images
Auto Power Off	Yes	Yes
Worklights	Yes	Yes
Display Size	2.8 in TFT screen	2.8 in TFT screen
Battery	4 AAA batteries; optional TA04 Li-Poly rechargeable battery	3 AA batteries; optional TA04 Li-Poly rechargeable battery
Drop Test	3 m	3 m
IP Rating	IP54	IP40
Safety Category Rating	CAT III-1000V, CAT IV-600V	CAT III-1000V, CAT IV-600V
Size (L × W × H)	200 × 95 × 49 mm (7.9 × 3.7 × 1.9 in)	200 × 95 × 49 mm (7.9 × 3.7 × 1.9 in)
Weight	537 g (18.9 oz)	537 g (18.9 oz)
Warranty	10 year on product and detector	10 year on product and detector
Box Contents		
	Multimeter, batteries, silicone test leads, test lead storage/tripod accessory, Type-K thermocouple, alligator probes, soft carrying case (DM285 only)	

Ordering Information	Order #
FLIR DM285 Industrial Imaging Multimeter with Datalogging, Connectivity, IGM	793950372876
FLIR DM284 Imaging True RMS Industrial Multimeter with IGM	793950372845

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

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NASDAQ: FLIR

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