

P/N: DM66

Revision

45684

Last modified

2017-10-09 09:24 UTC+1

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>



Part number	DM66
Part name	Electrical and Field Service TRMS Multimeter with VFD Mode
<p>The FLIR DM66 digital multimeter combines a rich feature set, precise measurements, and quality for exceptional value. The meter is easy to use and built to last, providing long-term stability for everyday use. The FLIR DM66 has a low impedance (LoZ) mode to prevent ghost voltage from delivering false readings. It measures frequency, diode, capacitance, and temperature, for a comprehensive feature set ideal for commercial electricians and automation field, service or electronics technicians.</p>	
<p>All the features you need in one tool:</p> <ul style="list-style-type: none"> Rich feature set ideal for various electrical applications. Safely check voltage with non-contact voltage detection. Measure both AC/DC voltage and current (A, mA, μA). Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, LoZ mode, frequency, resistance/continuity, diode, capacitance, and temperature (type K thermocouple). 	
<p>Fast, efficient troubleshooting and testing:</p> <ul style="list-style-type: none"> Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems. One-handed operation—compact and ergonomic design with easy-to-access buttons. Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication. Easy-to-navigate on-screen menu system. 	
<p>Tough, reliable, high quality:</p> <ul style="list-style-type: none"> High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation. Take the meter with you anywhere: 2 m drop tested and IP40 rated. Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating. Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold. 	

Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC \pm 1%/0.4%
AC/DC mV	600.0 mV \pm 1%/0.4%
VFD AC V	600.0 V AC RMS, 10–100 Hz, \pm 1%
AC/DC LoZ V	600.0 V AC RMS or 600.0 V DC \pm 2.0%
AC/DC A	10.00 A AC RMS or 10.00 A DC \pm 1.5%/1.0%
AC/DC mA range	600.0 mA \pm 1.0%/0.7%
AC/DC μ A range	6000 μ A AC RMS or 6000 μ A DC \pm 1.5%/1.0%
Frequency counter, voltage	50.00 kHz \pm 0.1%



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Electrical measurement	
Frequency counter, current	5.00 kHz \pm 0.1%
Resistance	60.00 M Ω \pm 0.9%
Continuity check threshold	30–480 Ω
Diode test	3.000 V \pm 0.9%
Capacitance	2000 μ F \pm 1.5%, 10.00 mF \pm 4.5%
Temperature, type K thermocouple	–40 to 400°C DMM \pm (1.0% + 1°C) (–40 to 752°F DMM \pm (1.0% + 2°F))
Measuring rate	5 samples per second
<i>Accuracy is given as \pm % of reading)</i>	

Meter data	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	Limited lifetime warranty
Calibration cycle	Once per year, recommended

Certifications	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V

Power system	
Power requirements	2 \times AAA batteries
Battery life	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes

Environmental data	
Operating temperature	–10 to 50°C (14–122°F)
Operating humidity	80% to 31°C; decreasing linearly to 50% at 31–50°C
Storage temperature and relative humidity (RH)	–20 to 60°C (–4 to 140°F), 0–80% RH (without batteries)
Temperature coefficient	Nominal 0.15 \times (specified accuracy)/°C at –10 to 18°C (14–64.4°F) or 28–50°C (82.4–122°F), or as otherwise specified
Operating altitude	2000 m (6560 ft.)
Pollution degree	2
EMC	EN61326-1

Meter physical data	
Weight	334g (11.8 oz.)
Dimensions (L \times W \times H)	161 mm \times 80 mm \times 50 mm (6.3 in. \times 3.2 in. \times 2.0 in.)
Material	Polycarbonate/ABS
Color	Gray, black, and blue



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Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM66 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, alligator clips, soft carrying case
Packaging weight	1.3 kg (2.9 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 11 cm (13.0 in. × 5.5 in. × 4.3 in.)
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6 in. × 11.8 in. × 22.0 in.)
Carton quantity	12
EAN-13	0793950381663
UPC-12	793950381663
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

Included in the box	
DM66 Electrical and Field Service TRMS Multimeter with VFD Mode	
TA80 Premium Silicone Test Leads	
TA70 Alligator Clips	
Soft carrying case	

Optional accessories	
TA72 Universal Flex Current Probe Accessory 10 in. (25 cm)	
TA74 Universal Flex Current Probe Accessory 18 in. (45 cm)	
TA10-F Protective Case for FLIR DMMs and TA7X	
TA50 Magnetic Hanging Strap	
TA60 Thermocouple Adapter with Type K Probe	