

FLIR DM66: Electrical and Field Service TRMS Multimeter with VFD Mode

P/N: DM66

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Document identity

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Website

http://www.flir.com

Customer support

http://support.flir.com

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Part number	DM66
Part name	Electrical and Field Service TRMS Multimeter with VFD Mode
exceptional value. The meter is easy to use ar use. The FLIR DM66 has a low impedance (L readings. It measures frequency, diode, capac	a rich feature set, precise measurements, and quality for nd built to last, providing long-term stability for everyday oZ) mode to prevent ghost voltage from delivering false citance, and temperature, for a comprehensive feature mation field, service or electronics technicians.
All the features you need in one tool:	
	age detection. (A, mA, μA). tions, including variable-frequency drive (low-pass filter), , LoZ mode, frequency, resistance/continuity, diode,
Fast, efficient troubleshooting and testing:	
electrical and electronic systems.One-handed operation—compact and erg	
Tough, reliable, high quality:	
 accurate, and trouble-free operation. Take the meter with you anywhere: 2 m dre Work with peace of mind knowing your merating. 	n stability and reliability ensure many years of safe, op tested and IP40 rated. eter has a CAT IV—300 V, CAT III—600 V safety category including auto power off, a display backlight, Min/Max/
Electrical measurement	
Display count	6000
AC/DC V	600.0 V AC RMS or 600.0 V DC ± 1%/0.4%
AC/DC mV	600.0 mV ± 1%/0.4%

600.0 V AC RMS or 600.0 V DC ± 2.0%

10.00 A AC RMS or 10.00 A DC ± 1.5%/1.0%

AC/DC LoZ V AC/DC A



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Electrical measurement		
AC/DC mA range	600.0 mA ± 1.0%/0.7%	
AC/DC μA range	6000 μA AC RMS or 6000 μA DC \pm 1.5%/1.0%	
Frequency counter, voltage	50.00 kHz ± 0.1%	
Frequency counter, current	5.00 kHz ± 0.1%	
Resistance	60.00 MΩ ± 0.9%	
Continuity check threshold	30–480 Ω	
Diode test	3.000 V ± 0.9%	
Capacitance	2000 μF ± 1.5%, 10.00 mF ± 4.5%	
Temperature, type K thermocouple	-40 to 400°C DMM ± (1.0% + 1°C) (-40 to 752°F DMM ± (1.0% + 2°F))	
Measuring rate	5 samples per second	
Accuracy is given as \pm % of reading)		
Meter data		
Category rating	CAT IV—300 V, CAT III—600 V	
IP rating	IP40	
Drop test	2 m (6.6 ft.)	
Warranty	https://www.flir.com/testwarranty	
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 × 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 $0.15 \times (\text{specified accuracy})^{\circ}C$ 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 × 80 mm × 50 mm (6.3 in. × 3.2 in. × 2.0 in.)	
Material	Polycarbonate/ABS	
	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 \times W \times L)	33 cm \times 14 cm \times 11 cm (13.0 in. \times 5.5 in. \times 4.3 in.)		
Carton weight	16.5 kg (36.4 lb.)		
Carton dimensions (H \times W \times L)	65 cm \times 30 cm \times 56 cm (25.6 in. \times 11.8 in. \times 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		
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			

Supplies & accessories:

- TA03-KIT; NiMH Rechargeable Battery Kit
- TA15; Universal Soft Sided Case
- TA16; Pouch for FLIR Multimeters
- TA50; Magnetic Hanging Strap for DM9x, IM7x Series
- TA60; Thermocouple probe with adapter
- TA70; CAT IV Insulated Alligator Probes
- TA80; CAT IV Silicone Test Leads



Teledyne FLIR LLC 9 Townsend West, Nashua NH 03063 / Phone: 603.324.7800 / Fax: 603.324.7864

Declaration of Conformity

Extech Model: DM66 Description: Multimeter Date of Issue: 12-Jul-21

We, Teledyne FLIR LLC, 9 Townsend West, Nashua, NH 03063 declare that a sample of the product listed above has been tested by a third party for CE marking

EMC Directive:	2014/30/EU
Report Number:	R12069017-EMC
Report Date of Issue:	12/19/2017

<u>Standards:</u>

EN 61326-1:2013

LVD Directive:	2014/35/EU
Report Number:	E201687-D1011-1/A0/C0-CB
Report Date of Issue:	2/14/2018

Standards: IEC 61010-1 (Ed. 3)

IEC 61010-2-033 (Ed. 1)

RoHS Directive: EU DIrective 2015/863/EU (RoHS 3)

The test reports show that the product fulfills the requirement in the EC Low Voltage Directive and EMC Directive and RoHS Directive for CE Marking. On this basis, together with the manufacturer's own documented production control, the manufacturer (or his European authorized representative) can in his EC Declaration of Conformity verify compliance with the EC Low Voltage Directive and EC EMC Directive and RoHS Directive.

Mark Sultzbach / QA Manager



Taipei, Taiwan July 13, 2021

UK Declaration of Conformity

Product: FLIR DM66 Name and address of the manufacturer: Te

Teledyne FLIR LLC, 9 Townsend West, Nashua, NH 03063

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR DM66.

The object of the declaration described above is in conformity with the relevant statutory requirements applicable to the specific product:

Standards review betw UK legislation refr.	een UK and EU UK designated standard*	EU regulation refr.	EU harmonised standard
EMC		EMC	
S.I. 2016 No. 1091	EN 61326-1:2013	2014/30/EU	EN 61326-1:2013
LVD Directive S.I. 2016 No. 1101 S.I. 2016 No. 1101	IEC 61010-1 (Ed. 3) IEC 61010-2-033 (Ed. 1)	LVD Directive 2014/35/EU 2014/35/EU	IEC 61010-1 (Ed. 3) IEC 61010-2-033 (Ed. 1)
RoHS S.I. 2012 No. 3032	EN 50581:2012	2015/65/EU (RoHS)	EN 50581:2012

* <u>https://www.gov.uk/guidance/designated-standards 2021-03-19</u>

Designated standards: EMC – consolidated list, version 1, 1 January 2021 Designated standards: RoHS – consolidated list, version 1, 1 January 2021 Referenced standards: general product safety – consolidated list, version 1, 1 January 2021 FLIR Commercial Systems

Quality Assurance

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Hank Tsai Quality Manager