

Product Datasheet - Technical Specifications



More information in our Web-Shop at ► www.meilhaus.com

Your contact

Technical and commercial sales, price information,
quotations, demo/test equipment, consulting:

Tel.: **+49 - (0)81 41 - 52 71-0**

FAX: **+49 - (0)81 41 - 52 71-129**

E-Mail: sales@meilhaus.com

Meilhaus Electronic GmbH
Am Sonnenlicht 2
82239 Alling/Germany

Tel. **+49 - (0)81 41 - 52 71-0**
Fax **+49 - (0)81 41 - 52 71-129**
E-Mail sales@meilhaus.com

Mentioned company and product names may be registered trademarks of the respective companies. Errors and omissions excepted. © Meilhaus Electronic.



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

P/N: DM66

Copyright

© 2021, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Document identity

Publ. No.: DM66

Commit: 78762

Language: en-US

Modified: 2021-08-19

Formatted: 2021-08-19

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



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%



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

P/N: DM66

© 2021, FLIR Systems, Inc.

#DM66; r. 78762; en-US

Electrical measurement	
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%
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	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 \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



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

P/N: DM66

© 2021, FLIR Systems, Inc.

#DM66; r. 78762; en-US

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

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