

## Product Datasheet - Technical Specifications



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# FLIR DM62: TRMS Digital Multimeter with Non-contact Voltage

## P/N: DM62

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### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

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Part number	DM62
Part name	TRMS Digital Multimeter with Non-contact Voltage
<p>The FLIR DM62 digital multimeter combines a rich feature set, precise measurements, and quality for exceptional value. The meter is easy to use and built to last, offering long-term stability for everyday use. It is the right choice for DIY, or for professionals installing and maintaining commercial electrical and electronic systems.</p>	
<p>All the features you need in one tool:</p> <ul style="list-style-type: none"> <li>Rich feature set ideal for various electrical applications.</li> <li>Safely check voltage using non-contact voltage detection.</li> <li>Measure both AC/DC voltage and AC/DC current (A, mA, <math>\mu</math>A).</li> <li>Diagnose faults with broad DMM test functions, including variable-frequency drive (low-pass filter), a voltage measurement range up to 600 V, resistance/continuity, and diode.</li> </ul>	
<p>Fast, efficient troubleshooting and testing:</p> <ul style="list-style-type: none"> <li>Intuitive and simple user interface for more effective and efficient troubleshooting and testing of electrical and electronic systems.</li> <li>One-handed operation—compact and ergonomic design with easy-to-access buttons.</li> <li>Simplify the task of checking wiring connections and switch operation in noisy work environments with a flashing backlight and audible indication.</li> <li>Easy-to-navigate on-screen menu system.</li> </ul>	
<p>Tough, reliable, high quality:</p> <ul style="list-style-type: none"> <li>High-quality measurements with long-term stability and reliability ensure many years of safe, accurate, and trouble-free operation.</li> <li>Take the meter with you anywhere: 2 m drop tested and IP40 rated.</li> <li>Work with peace of mind knowing your meter has a CAT IV—300 V, CAT III—600 V safety category rating.</li> <li>Make your job easier with helpful features including auto power off, a display backlight, Min/Max/Avg, relative mode, and data hold.</li> </ul>	
<b>Electrical measurement</b>	
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 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 $\mu$ A range	6000 $\mu$ A AC RMS or 6000 $\mu$ A DC $\pm$ 1.5%/1.0%



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<b>Electrical measurement</b>	
Resistance	60.00 M $\Omega$ $\pm$ 0.9%
Continuity check threshold	30–480 $\Omega$
Diode test	3.000 V $\pm$ 0.9%
Measuring rate	5 samples per second
<i>Accuracy is given as <math>\pm</math> (% of reading)</i>	
<b>Meter data</b>	
Category rating	CAT IV—300 V, CAT III—600 V
IP rating	IP40
Drop test	2 m (6.6 ft.)
Warranty	<a href="https://www.flir.com/testwarranty">https://www.flir.com/testwarranty</a>
Calibration cycle	Once per year, recommended
<b>Certifications</b>	
Certifications	C-UL-US, CE, RCM
Safety standards compliance	IEC 61010-1 CAT IV—300 V, CAT III—600 V
<b>Power system</b>	
Power requirements	2 $\times$ AAA batteries
Battery life, alkaline batteries	400 hours without backlight (alkaline batteries)
Auto power off	32 minutes
<b>Environmental data</b>	
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°C 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
<b>Meter physical data</b>	
Weight	334 g (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
<b>Shipping information</b>	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM62 with integral probe holder, 2 $\times$ alkaline batteries (AAA), high-quality silicone test leads, 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.)



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Shipping information	
Carton weight	16.5 kg (36.4 lb.)
Carton dimensions (H x W x L)	65 cm x 30 cm x 56 cm (25.6 in. x 11.8 in. x 22.0 in.)
Carton quantity	12
EAN-13	0793950381625
UPC-12	793950381625
Country of origin	Taiwan
Tariff code	9030310000
Technical support	
Website	<a href="http://support.flir.com">http://support.flir.com</a>
Included in the box	
DM62 TRMS Multimeter with Integrated Test Lead Holder	
TA80 Premium Silicone Test Leads	
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
- TA70; CAT IV Insulated Alligator Probes
- TA80; CAT IV Silicone Test Leads