



FLIR DM64: HVAC TRMS Digital Multimeter with Temperature

P/N: DM64

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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Part number	DM64
Part name	HVAC TRMS Digital Multimeter with Temperature
<p>The FLIR DM64 is an affordable true RMS digital multimeter with temperature (type K thermocouple) and microamp measurement to test flame sensors. This, coupled with a rich feature set for both high- and low-voltage applications, makes it the ideal tool for HVAC professionals.</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 $\pm 1.5\%/1.0\%$



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Electrical measurement	
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	Beep between 30 Ω and 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	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



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Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM64 with integral probe holder, 2 × alkaline batteries (AAA), high-quality silicone test leads, type K thermocouple, 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	0793950381649
UPC-12	793950381649
Country of origin	Taiwan
Tariff code	9030310000

Technical support	
Website	http://support.flir.com

Included in the box	
DM64 HVAC TRMS Digital Multimeter with Temperature	
TA80 Premium Silicone Test Leads	
Thermocouple adapter with type K probe	
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