FLIR DM92: Industrial Digital Multimeter with LoZ and VFD Mode

P/N: DM92

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Part number	DM92
Part name	Industrial Digital Multimeter with LoZ and VFD Mode
Part description	The FLIR DM92 is an industrial-grade digital multimeter built for durability to ensure longevity in rugged environments. • Variable frequency drive (VFD) mode filters noisy variable-frequency drives and enables accurate voltage and frequency measurements for maintenance and trouble-shooting tasks. • Low impedance (LoZ) eliminates ghost voltage errors from long wires that share a conduit. • Convenient LED work lights assist with focusing on test leads without the need to also hold a flashlight. Functions: DC voltage, AC voltage, DC current, AC current, resistance, type K thermocouple contact temperature, capacitance, frequency, diode, continuity, duty cycle. Features: VFD mode, LoZ mode, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.

Measurement	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	4000/40 000
Frequency counter	400.00 Hz ± 5 digits 4.0000 kHz ± 5 digits 40.000 kHz ± 5 digits 100.00 kHz ± 5 digits

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Measurement	
Resistance	400.0 Ω ± (0.2% + 2 digits) 4.000 kΩ ± (0.2% + 1 digit) 40.00 kΩ ± (0.2% + 1 digit) 400.0 kΩ ± (0.2% + 1 digit) 4.000 MΩ ± (1.0% + 1 digits) 40.00 MΩ ± (2.0% + 20 digits)
Continuity check	400.0 Ω ± (0.2% + 2 digits)
Diode test	2.000 ± (1.5% + 2 digits)
Capacitance	40.00 nF ± (1.2% + 20 digits) 400.0 nF ± (0.9% + 2 digits) 4.000 µF ± (0.9% + 2 digits) 40.00 µF ± (0.9% + 2 digits) 400.0 µF ± (0.9% + 2 digits) 4.000 mF ± (1.2% + 20 digits) 40.00 mF ± (2.0% + 20 digits)
Temperature	–328 to 2192°F ± (1.0% + 36 digits), –200 to 1200°C ± (1.0% + 20 digits)
Measuring rate	10 samples per second

Meter data	
Category rating	CAT IV—600 V, CAT III—1000 V
Data recording	20 000 points (125 days maximum)
Warranty	Limited lifetime warranty
Calibration cycle:	Once per year, recommended

Certifications	
Certifications	UL, CE, FCC, CB
Safety standards compliance	IEC 61010-1 CAT IV—600 V, CAT III—1000 V, IEC 61010-2-033

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	Approximately 100 hours with batteries (backlight and work light off)
Auto power off	Default: 10 minutes

Environmental data	
Operating ambient temperatures and relative humidity (RH)	14–86°F (–10 to 30°C), <85% RH 86–104°F (30–40°C), <75% RH 104–122°F (40–50°C), <45% RH
Storage temperature and RH	–22 to 140°F (–30 to -60°C), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	6560′ (2000 m)
Pollution degree	2

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Environmental data	
EMC	EN61326-1
Shock vibration	Per MIL-PRF-28800 for a Class 2 instrument

Meter physical data	
Weight	16.4 oz. (465 g) including batteries
Dimensions (H × W × L)	2.0″ × 3.2″ × 7.4″ (52 mm × 83 mm × 188 mm) with holster
Material	PC-ABS, TPE
Color	Gray and black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	DM92 FLIR meter, TA80 premium test leads, 6 × AAA Energizer batteries, user manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3″ × 5.5″ × 12.6″)
Carton weight	13.5 kg (29.5 lb.)
Carton dimensions (H × W × L)	13 7/8″ × 11 1/2″ × 24 1/8″
Carton quantity	12
EAN-13	0793950370926
UPC-12	793950370926
Country of Origin	Taiwan
Tariff Code	9030310000

Technical support	
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Repairs	repair@flir.com

Accessories	
TA10. EVA Protective case for DM9x and IM7x Series	
TA50. Magnetic Hanging Strap	
TA60. Thermocouple Adapter with Type K Probe	
TA70. CAT IV Insulated Alligator Probes (Slip On)	
TA80. CAT IV Silicone Test Leads	

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Monday, August 18, 2014	T&M Engineering
Description	
FLIR DM92, Units in mm	

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