

Product Datasheet - Technical Specifications



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P/N: DM93

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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.



The FLIR DM93 is a world-class digital multimeter with advanced variable-frequency drive (VFD) filtering to help you accurately analyze non-traditional sine waves and noisy signals found in VFD-controlled equipment.

- VFD mode filters VFD signals and provides accurate voltage and frequency measurements during maintenance and troubleshooting.
- LoZ mode eliminates ghost voltage readings associated with long-run applications.
- Powerful work lights eliminate the need for a flashlight while performing tests in dim lighting.
- The data record feature captures electrical measurements and provides wireless data transfer.
- Integrated Bluetooth technology connects the FLIR DM93 to the FLIR Tools Mobile app on your compatible mobile device.
- METERLINK technology wirelessly integrates electrical readings on your infrared image with FLIR thermal cameras.

Features:

Voltage and current, bright white LED backlight, analog bargraph, auto AC/DC voltage, minimum, maximum, average recording, auto power off, hold, relative, peak hold, store, recall.

Measurement

DC voltage	1000.0 V ± 0.05%
AC voltage	1000.0 V ± 0.5%
VFD voltage	1000.0 V ± 0.5%
DC current	10.000 A ± 0.2%
AC current	10.000 A ± 1.0%
Resistance	40.00 MΩ ± 0.2%
Continuity threshold	30 Ω ± 0.2%
Frequency	100.00 kHz ± 5 digits
Capacitance	40.00 mF ± 0.9%
Temperature	-200 to 1200°C (-328 to 2192°F) ± 1.0%
Diode test	2V ± 1.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
ACV Bandwidth	20 kHz
ACA Bandwidth	10 kHz
Measuring rate:	10 samples per second



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Meter data	
Bluetooth range (maximum)	10 m (32')
Display counts	40 000
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	20 000 points (125 days maximum)
Warranty	https://www.flir.com/testwarranty
Calibration cycle	Once per year (suggested)

Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Low battery voltage	~7.0 V
Auto power off	Default: 10 minutes

Environmental data	
Drop test	3 m (9.8 ft.)
IP rating	IP54 dust-protected and splash-resistant
Operating ambient temperatures and relative humidity (RH)	<ul style="list-style-type: none">• -10 to 30°C (14–86°F), <85% RH• 30–40°C (86–104°F), <75% RH• 40–50°C (104–122°F), <45% RH
Storage temperature and RH	-30 to 60°C (-22 to 140°F), 0–80% RH (batteries not fitted)
Temperature coefficient	0.1 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter physical data	
Weight	465 g (1 lb.) including batteries
Dimensions (H × W × L)	52 mm × 83 mm × 188 mm (2.0" × 3.2" × 7.4")
Material	<ul style="list-style-type: none">• Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)• Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">• DM93 FLIR meter• TA80 premium test leads• Type K temperature probe (400°F, 204°C)• Magnetic hanging strap• 6 × AAA Energizer batteries• User manual/CD
Packaging weight	1.04 kg (2.29 lb.)



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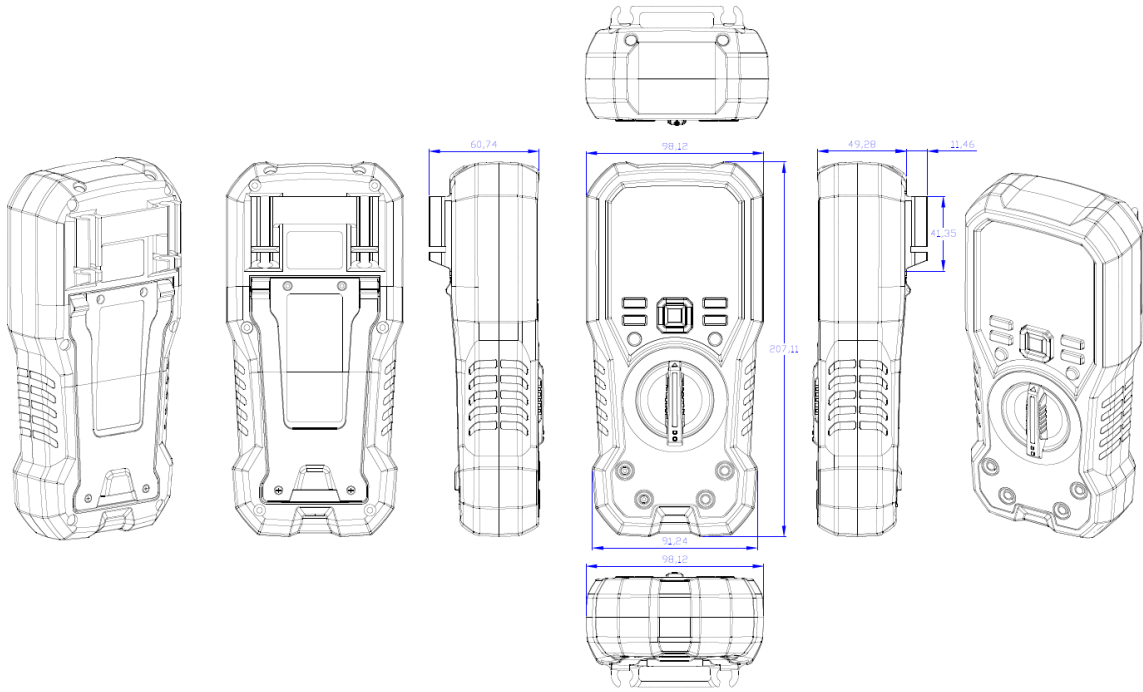
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Shipping information	
Packaging dimensions (H x W x L)	11 cm x 14 cm x 32 cm (4.3" x 5.5" x 12.6")
Carton weight	20.8 kg (45.9 lb.)
Carton dimensions (H x W x L)	65 cm x 30 cm x 56 cm (25.6" x 11.8" x 22.0")
Carton quantity	20
EAN-13	0793950370933
UPC-12	793950370933
Country of origin	Taiwan
Tariff code	9030310000
Technical support	
Website	http://support.flir.com

Supplies & accessories:

- TA03-KIT; NiMH Rechargeable Battery Kit
- TA10; Protective case for DM9x and IM7x Series
- TA10-F; Protective Case for DM9x and TA72/74 Series
- TA15; Universal Soft Sided Case
- TA16; Pouch for FLIR Multimeters
- TA42; TA42 Belt Clip
- TA50; Magnetic Hanging Strap for DM9x, IM7x Series
- TA52; TA52 Magnetic Meter Mount
- TA60; Thermocouple probe with adapter
- TA70; CAT IV Insulated Alligator Probes
- TA72; Large Universal Flex Current Probe Accessory (25 cm)
- TA74; Large Universal Flex Current Probe Accessory (45 cm)
- TA80; CAT IV Silicone Test Leads

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Modified Date Monday, March 17, 2014	Modified By T&M Engineering
Description FLIR DM93, Units in mm	

