

P/N: DM93

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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 $\pm$ 0.05%
AC voltage	1000.0 V $\pm$ 0.5%
VFD voltage	1000.0 V $\pm$ 0.5%
DC current	10.000 A $\pm$ 0.2%
AC current	10.000 A $\pm$ 1.0%
Resistance	40.00 M Ω $\pm$ 0.2%
Continuity threshold	30 Ω $\pm$ 0.2%
Frequency	100.00 kHz $\pm$ 5 digits
Capacitance	40.00 mF $\pm$ 0.9%
Temperature	-200 to 1200°C (-328 to 2192°F) $\pm$ 1.0%
Diode test	2V $\pm$ 1.5%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
ACV Bandwidth	20 kHz



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#DM93; r. /23377; en-US

Measurement	
ACA Bandwidth	10 kHz
Measuring rate:	10 samples per second
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	Limited lifetime
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)	–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	- Polycarbonate and acrylonitrile butadiene styrene (PC-ABS) - Thermoplastic elastomer (TPE)
Color	Gray, black



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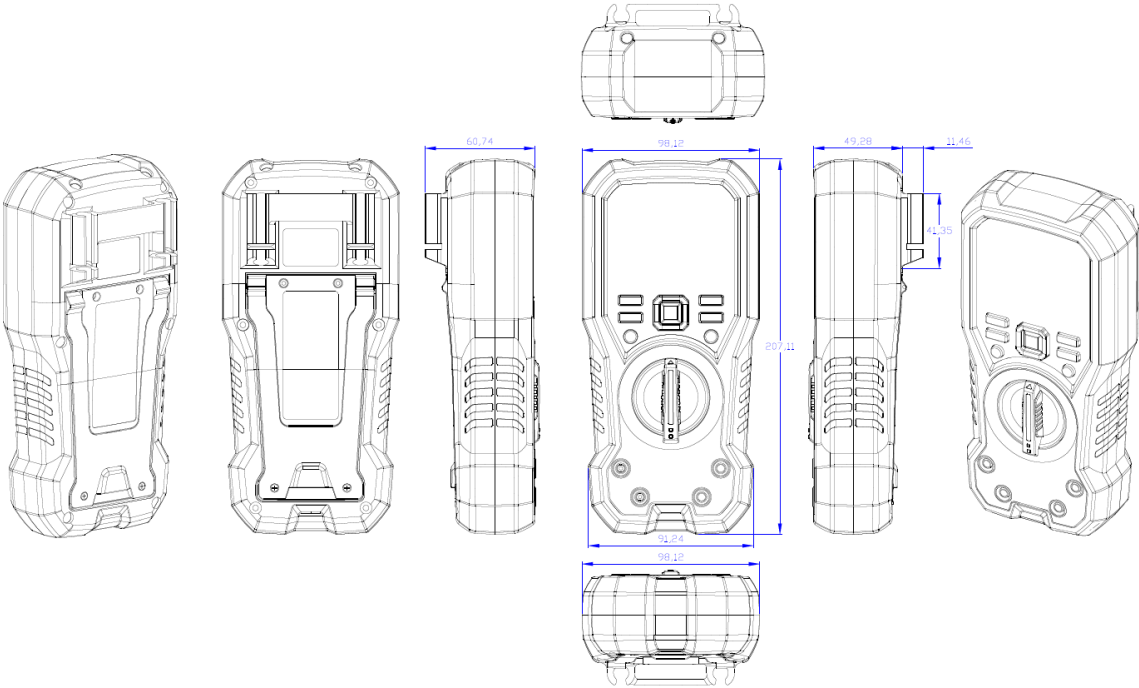
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Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	• DM93 FLIR meter • TA80 premium test leads • Type K temperature probe (400°F, 204°C) • Magnetic hanging strap • 6 × AAA Energizer batteries • User manual/CD
Packaging weight	1.04 kg (2.29 lb.)
Packaging dimensions (H × W × L)	11 cm × 14 cm × 32 cm (4.3" × 5.5" × 12.6")
Carton weight	20.8 kg (45.9 lb.)
Carton dimensions (H × W × L)	65 cm × 30 cm × 56 cm (25.6" × 11.8" × 22.0")
Carton quantity	20
EAN-13	0793950370933
UPC-12	793950370933
Country of origin	Taiwan
Tariff code	9030310000
Accessories	
TA80	CAT IV silicon test leads
Technical support	
Website	http://support.flir.com
E-mail	TMSupport@flir.com
Phone	855-499-3662
Repairs	repair@flir.com

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

