



INDUSTRIAL TRMS MULTIMETERS

FLIR DM90/91™

The FLIR DM90 and DM91 are affordable, safe, and reliable digital multimeters for a wide range of electrical and electronic system applications. With durable design, intuitive user interfaces, and comprehensive features covering high and low voltage applications, the DM90 and DM91 are uniquely positioned to help you troubleshoot electrical, electronic and HVAC/R systems. The DM91 is also enhanced with Bluetooth® technology, so you can connect via METERLiNK® to FLIR infrared cameras, or to mobile devices running FLIR Tools™ or the FLIR InSite™ workflow management system.



FAST & EFFECTIVE TROUBLESHOOTING

Rich feature set ensures safe and accurate operations

- Diagnose complex systems with high and low voltage measurement capabilities
- Measure True RMS, LoZ, and VFD, as well as microamp and milliamp current
- Assess temperatures up to 400°C (752°F) with Type-K thermocouple
- Work safely with built-in, non-contact AC voltage



WORK EFFICIENTLY

Designed and built to make your job easier

- User-friendly design with an intuitive interface and enhanced ergonomics
- Work longer with flexible battery options, powerful LED worklights, and rugged, drop-tested design
- Detect and document intermittent trends using the datalogging mode with on-board storage of 40k measurements*
- Rely on the protection of CAT IV-600V, CAT III-1000V safety ratings



DOCUMENT & SHARE RESULTS

View and share wirelessly for improved workflow

- Send readings via METERLiNK to compatible FLIR infrared cameras to embed data into live or saved thermal images*
- Wirelessly connect to FLIR Tools or the FLIR InSite workflow management application, for efficient troubleshooting and streamlined inspections*

* FLIR DM91 model only.

SPECIFICATIONS

Features by Meter	DM90	DM91
Connectivity	–	Bluetooth®
Data Logging & Storage	–	1 file of 40k scalar measurements

Measurements-Both Models		
True RMS	Yes	Yes
	Range	Basic Accuracy
AC / DC Volts	1000 V	±1.0% / 0.09%
AC / DC mVolt	600.0 mV	±1.0% / 0.5%
VFD AC Volts	1000 V	±1.0%
AC / DC LoZ V	1000 V	±2.0%
AC / DC Amps	10.00 A	±1.5% / 1.0%
AC / DC mAmps	400.0 mA	±1.5% / 1.0%
AC / DC μ Amps	4,000 μ A	±1.0%
Resistance	6.000 M Ω 50.00 M Ω	±0.9% ±3.0%
Capacitance	10.00 mF	±1.9%
Diode Test	1.500 V	±0.9%
Frequency Counter	100.00 kHz	±0.1%
Temperature, Type-K Thermo-couple	-40°F to 752.0°F -40°C to 400°C	±1.0% + 5.4°F ±1.0% + 3°C

Additional Measurements	DM90	DM91
Continuity Check	600 Ω	20 Ω and 200 Ω
Measuring Rate	3 samples per second	3 samples per second

General Information		
Auto Power Off	Yes	Yes
Worklights	Yes	Yes
Battery	4 AAA batteries; optional TA04 Li-Poly rechargeable battery	3 AA batteries; optional TA04 Li-Poly rechargeable battery
Drop Test	3 m	3 m
IP Rating	IP54	IP40
Safety Category Rating	CAT IV-600V, CAT III-1000V	CAT IV-600V, CAT III-1000V
Size (L x W x H)	200 x 95 x 49 mm (7.9 x 3.7 x 1.9 in)	200 x 95 x 49 mm (7.9 x 3.7 x 1.9 in)
Weight	536 g (18.9 oz)	535 g (18.8 oz)
Warranty	Limited lifetime warranty	Limited lifetime warranty

Box Contents
FLIR digital multimeter, batteries, silicone test leads, alligator clips, test lead storage/holder attachment, Type-K thermocouple, soft carrying case

Ordering Information
FLIR DM90 True RMS Industrial Multimeter
FLIR DM91 Industrial TRMS Multimeter with Datalogging, Connectivity