



# FLIR DM90

## TRMS Multimeter with Type K Temperature

The DM90 is an affordable True RMS digital multimeter with a Type K Thermocouple, an ideal tool for electricians, service technicians and HVAC professionals to have on the job. Equipped with rich features including LoZ, Variable Frequency Drive (VFD), and uA current measurement capability, the DM90 gives you trusted readings to troubleshoot and repair a wide range of electrical and electronic systems. The DM90 is shipped fully tested and calibrated, and with proper use, will provide years of reliable service.

### Trusted readings

*Verify problems with accurate readings*

- Measures Voltage, Current, Frequency, Resistance/Continuity, Diode, Capacitance, and Temperature
- Features LoZ, VFD, uA measurement, Smart/Classic Diode modes
- Measures voltage up to 1000V AC/DC

### Feature-rich DMM

*An ideal tool to have in the field*

- Powerful LED worklights eliminate need for flashlight in dim lighting
- Digital LCD display with bargraph, customizable, easy-to-use settings option menu, and on-screen programming menu navigation
- Min/Max/Avg, Peak Min/Max, Hold, Auto Hold, Auto Power Off with Disable

### Built to last

*Will provide years of reliable service*

- Provides industry-leading Limited Lifetime Warranty
- Made tough for protection against splashing water (IP54 rating), and withstands a 3-meter drop
- Includes a non-contact AC voltage detector



Troubleshoot Variable Frequency Drives using VFD mode



Check if voltage is present with the built-in Non-Contact Voltage detector (NCV)

## Specifications

Measurements	
Maximum voltage	1000 V DC or 1000 V AC RMS
Display count	6000
Frequency counter	100.00 Hz ± (0.1% + 2D) 1000.0 Hz ± (0.1% + 2D) 10.000 kHz ± (0.1% + 2D) 100.00 kHz ± (0.1% + 2D)
Resistance	600.0 Ω ± (0.9% + 5D) 6.000 kΩ ± (0.9% + 2D) 60.00 kΩ ± (0.9% + 2D) 600.0 kΩ ± (0.9% + 2D) 6.000 MΩ ± (0.9% + 2D) 50.00 MΩ ± (3.0% + 5D)
Continuity check	600.0 Ω ± (0.9% + 5D)
Diode test	1.500 ± (0.9% + 2D)
Capacitance	1000 nF ± (1.9% + 5D) 10.00 μF ± (1.9% + 2 digits) 100.0 μF ± (0.9% + 2 digits) 1.000 mF ± (0.9% + 2 digits) 10.00 mF ± (0.9% + 2 digits) 40.00 mF ± (2.0% + 20 digits)
Temperature, Type K thermocouple	-40 to 400°C DMM ± (1.0% + 3°C)/ IGM ± (1.0% + 5°C)
Measuring rate	3 samples per second
General Information	
Category rating	CAT IV—600 V, CAT III—1000 V
IP rating	IP54
Battery life	Alkaline ~110hrs, LithiumPolymer (Optional)~ 500hrs
Battery type	4x AAA
Drop test	3M
Warranty	Limited lifetime warranty
Accessories In the Box	
TA82 Premium Silicone Test Leads	
TA84 Test Lead Storage/Tripod Accessory	
TA70 CAT IV Insulated Alligator Probes (Slip On)	
TA60 Thermocouple Adapter with Type K Probe	
Accessories Optional	
TA72 Universal Flex Current Probe Accessory 25cm (10")	
TA74 Universal Flex Current Probe Accessory 45cm (18")	
TA04-KIT Lithium Polymer Rechargeable Battery Kit	
TA15 Soft Sided Carrying Case	
TA52 Magnet Mount	
TA50 Magnetic Hanging Strap	
TA42 Belt Clip	
TA10 Protective Case for FLIR DMMs	
TA10-F Protective Case for FLIR DMMs and TA7X	

Specifications are subject to change without notice. For the most up-to-date specifications, go to [www.flir.com](http://www.flir.com)



Includes Type K Thermocouple input for temperature measurements

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2017 FLIR Systems, Inc. All rights reserved. [Updated Jan 24] 17-0072\_EMEA



Optional TA7x Flex Current Probe adds 3000A AC current measurement capability



Built-in worklight eliminates the need for a flashlight



**SWEDEN**  
Instruments Division  
FLIR Systems AB  
Antennvägen 6  
187 66 Täby  
Tel. : +46 (0)8 753 25 00  
E-mail : flir@flir.com

**FLIR UK**  
West Malling  
Tel. +44 (0)1732 220 011

**FLIR Spain**  
Madrid  
Tel. +34 91 573 48 27

**Benelux**  
Sales Administration  
FLIR Commercial Systems  
Luxemburgstraat 2  
2321 Meer  
Belgium  
Tel.: +32 (0) 3665 5100

**FLIR Russia**  
Moscow  
Tel. + 7 495 669 70 72

**FLIR Middle East**  
Dubai  
Tel. +971 4 299 6898

**FLIR Germany**  
Frankfurt  
Tel. +49 (0)69 95 00 900

**FLIR Turkey**  
Istanbul  
Tel. +90 (212) 317 90 55

**FLIR France**  
Torcy  
Tel. +33 (0)1 60 37 01 00

**FLIR Africa**  
Johannesburg  
Tel. +27 11 300 5622

**FLIR Italy**  
Milan  
Tel. +39 (0)2 99 45 10 71

[www.flir.com](http://www.flir.com)  
NASDAQ: FLIR