



# FLIR DM90

## TRMS Multimeter with Type K Temperature

The DM90 is an affordable True RMS digital multimeter with a Type K Temperature function, 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
- Includes a built-in non-contact AC voltage detector

### 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



Troubleshoot Variable Frequency Drives using VFD mode



Includes Type K Thermocouple input for temperature measurements

## Specifications

Measurements	
Maximum voltage	1000 V DC or 1000 V AC True RMS
Display count	6000
Frequency	100.00 Hz $\pm$ (0.1% + 2D) 1000.0 Hz $\pm$ (0.1% + 2D) 10.000 kHz $\pm$ (0.1% + 2D) 100.00 kHz $\pm$ (0.1% + 2D)
Resistance	600.0 $\Omega$ $\pm$ (0.9% + 5D) 6.000 k $\Omega$ $\pm$ (0.9% + 2D) 60.00 k $\Omega$ $\pm$ (0.9% + 2D) 600.0 k $\Omega$ $\pm$ (0.9% + 2D) 6.000 M $\Omega$ $\pm$ (0.9% + 2D) 50.00 M $\Omega$ $\pm$ (3.0% + 5D)
Continuity check	600.0 $\Omega$ $\pm$ (0.9% + 5D)
Diode test	1.500 $\pm$ (0.9% + 2D)
Capacitance	1000 nF $\pm$ (1.9% + 5D) 10.00 $\mu$ F $\pm$ (1.9% + 2D) 100.0 $\mu$ F $\pm$ (0.9% + 2D) 1.000 mF $\pm$ (0.9% + 2D) 10.00 mF $\pm$ (0.9% + 2D) 40.00 mF $\pm$ (2.0% + 20D)
Temperature, Type K thermocouple	-40 to 752.0°F DMM $\pm$ (1.0% + 5.4°F)/ IGM $\pm$ (1.0% + 9°F), -40 to 400.0°C DMM $\pm$ (1.0% + 3°C)/ IGM $\pm$ (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 (included)
Drop test	3M
Warranty	Limited lifetime warranty

What's In the Box	UPC
DM90 True RMS Multimeter with Type K Temperature	793950370841
TA84 Test Lead Storage/Tripod	793950377840
TA70 CAT IV Insulated Alligator Probes (Slip On)	793950377703
TA60 Thermocouple Adapter with Type K Probe	793950377604
Accessories Optional	UPC
TA72 Universal Flex Current Probe Accessory 25cm (10")	793950377727
TA74 Universal Flex Current Probe Accessory 45cm (18")	793950377741
TA04-KIT Lithium Polymer Rechargeable Battery Kit	793950377048
TA15 Soft Sided Carrying Case	793950377154
TA52 Magnet Mount	793950377529
TA50 Magnetic Hanging Strap	793950377505
TA42 Belt Clip	793950374207
TA10 Protective Case for FLIR DMMs	793950377109
TA10-F Protective Case for FLIR DMMs and TA7X	793950377208

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

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



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



Built-in worklight eliminates the need for a flashlight



**PORTLAND**  
Corporate Headquarters  
FLIR Systems, Inc.  
27700 SW Parkway Ave.  
Wilsonville, OR 97070  
PH: +1 866.477.3687

**NASHUA**  
FLIR Systems, Inc.  
9 Townsend West  
Nashua, NH 03063  
PH: +1 866.477.3687

**CANADA**  
FLIR Systems, Ltd.  
920 Sheldon Court  
Burlington, ON L7L 5K6  
Canada  
PH: +1 800.613.0507

**LATIN AMERICA**  
FLIR Systems Brasil  
Av. Antonio Bardella,  
320 Sorocaba,  
SP 18085-852  
Brasil  
PH: +55 15 3238 7080

**CHINA**  
FLIR Systems Co., Ltd  
Rm 1613-16, Tower II  
Grand Central Plaza 1  
38 Shatin Rural  
Committee Rd.  
Shatin, New Territories  
Hong Kong  
PH: +852 2792 8955

**BELGIUM**  
FLIR Systems  
Luxemburgstraat 2  
2321 Meer  
Belgium  
PH: +32 (0) 3665 5100

**UNITED KINGDOM**  
FLIR Systems UK  
2 Kings Hill Ave., Kings Hill  
West Malling, Kent  
ME19 4AQ  
United Kingdom  
PH +44 (0)1732 220 011

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