



Troubleshoot Variable Frequency Drives using VFD mode



Includes Tyne K Thermocounte input for temperature measurements

FLIR NM90

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 onscreen 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



Specifications

Measurements	
Maximum voltage	1000 V DC or 1000 V AC True RMS
Display count	6000
Frequency	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	$\begin{array}{l} 600.0\ \Omega\pm(0.9\%+5D) \\ 6.000\ k\Omega\pm(0.9\%+2D) \\ 60.00\ k\Omega\pm(0.9\%+2D) \\ 600.0\ k\Omega\pm(0.9\%+2D) \\ 600.0\ k\Omega\pm(0.9\%+2D) \\ 6.000\ M\Omega\pm(0.9\%+2D) \\ 50.00\ M\Omega\pm(3.0\%+5D) \end{array}$
Continuity check	$600.0 \Omega \pm (0.9\% + 5D)$
Diode test	1.500 ± (0.9% + 2D)
Capacitance	$\begin{array}{l} 1000 \text{ nF} \pm (1.9\% + 5D) \\ 10.00 \mu\text{F} \pm (1.9\% + 2D) \\ 100.0 \mu\text{F} \pm (0.9\% + 2D) \\ 1.000 \text{mF} \pm (0.9\% + 2D) \\ 10.00 \text{mF} \pm (0.9\% + 2D) \\ 40.00 \text{mF} \pm (2.0\% + 20D) \\ \end{array}$
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



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



Built-in worklight eliminates the need for a flashlight



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