

## Data Sheet

# TMD90

## Digital Thermometer



## Digital thermometer, dual input

The TMD90 is a dual input thermometer that accepts type K, J, T, R, S, and E thermocouples and is ideal for HVAC/R technicians, electricians, research, industrial process, and quality control. The dual inputs allow easy super-heat and sub-cool temperature measurement as well as cut-out and in temperature measurements. The triple display with backlight shows T1, T2, and T1-T2 and includes Hold, Min/Max, Relative, and Timer / Date Stamp function. The TMD90 supports dual channel real time data acquisition using the built-in RS-232 interface and optional software and data transfer cable (Model TM-SW).

- High accuracy, multiple type input thermometer
- Measures to 3200°F / 1760°C
- Accepts Type J, K, T, R, S, E inputs
- Triple display of T1, T2, T1 - T2, and relative time
- Deluxe hard carrying case
- RS232 output with optional cable and software, TM-SW
- Relative Time Stamp with Min/Max indicators

## Specifications

T/C Type	Range	Resolution	Accuracy
Type K	-200 °C to 1370 °C (-328 °F to 2498 °F)		
Type J	-200 °C to 760 °C (-328 °F to 1400 °F)		
Type T	-200 °C to 390 °C (-328 °F to 730 °F)		
Type R and S	0 °C to 1760 °C (32 °F to 3200 °F)		
Type E	-200 °C to 736 °C (-328 °F to 1832 °F)		
Type K	-200 °C to 650 °C	0.1 °C	(0.1 % rdg + 0.7 °C)
	651 °C to 1370 °C	1.0 °C	(0.1 % rdg + 0.7 °C)
	-328 °F to 1000 °F	0.1 °F	(0.1 % rdg + 1.4 °F)
	1001 °F to 2498 °F	1.0 °F	(0.1 % rdg + 1.4 °F)
Type J	-200 °C to 500 °C	0.1 °C	(0.1 % rdg + 0.7 °C)
	501 °C to 760 °C	1.0 °C	(0.1 % rdg + 0.7 °C)
	-328 °F to 940 °F	0.1 °C	(0.1 % rdg + 1.4 °F)
	941 °F to 1400 °F	1.0 °F	(0.1 % rdg + 1.4 °F)
Type T	-200 °C to 390 °C	0.1 °C	(0.1 % rdg + 0.7 °C)
	-328 °F to 730 °F	0.1 °F	(0.1 % rdg + 1.4 °F)
Type R/S	0 °C to 1000 °C	0.1 °C	(0.3 % rdg + 0.7 °C)
	1001 °C to 1760 °C	1.0 °C	(0.3 % rdg + 0.7 °C)
	32 °F to 1000 °F	0.1 °F	(0.1 % rdg + 1.4 °F)
	1001 °F to 3200 °F	1.0 °F	(0.1 % rdg + 1.4 °F)
Type E	-200 °C to 380 °C	0.1 °C	(0.3 % rdg + 0.7 °C)
	381 °C to 736 °C	1.0 °C	(0.3 % rdg + 0.7 °C)
	-328 °F to 720 °F	0.1 °F	(0.1 % rdg + 1.4 °F)
	721 °F to 1832 °F	1.0 °F	(0.1 % rdg + 1.4 °F)



Triple display with backlight shows T1, T2 and relative time stamp.



### General Specifications

Operating conditions	0 °C to 50 °C (32 °F to 122 °F) at 0 to 85 % R.H.(non-condensing)
Ambient coefficient	0 °C to 18 °C and 28 °F to 50 °C (ambient temperatures) for each °C ambient below 18 °C or above 28 °C, add the following tolerance into the accuracy spec: 0.01 % of reading +0.03 °C (0.01 % of reading +0.06 °F)
Warranty	One-year

### Included Accessories

TMD90 dual input thermometer, two standard Type K thermocouple probes (TP-255), hard carrying case, battery (installed) and users manual.

### Optional Accessories

- TM-SW RS232 Cable and Software
- Record both channels simultaneously
  - Store real-time results for further analysis
  - Chart measurements for trends



**No waiting.**

**No shipping charges.**



## No hassle warranty

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that a Meterman test tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

**Meterman®**  
**The right tool, everyday.™**

### Meterman Test Tools

website: [www.metermantesttools.com](http://www.metermantesttools.com)  
 email: [info@metermantesttools.com](mailto:info@metermantesttools.com)

6920 Seaway Blvd.  
 Everett, WA 98203  
 fax: 425-446-4882  
 tel: 877-596-2680

Meterman Test Tools Europe  
 P.O. Box 1186  
 5602 BD Eindhoven  
 The Netherlands

©2005 Meterman Test Tools. All rights reserved.  
 8/2005 2124071 D-US-N Rev B