AMPROBE®

TMD90A
Digital Thermometer
Dual input, wide measurement ranges

■ High accuracy, multiple type input thermometer

■ Measures from -328°F / -200°C 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

The TMD90A 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 TMD90A supports dual channel real time data acquisition using the built-in RS-232 interface and optional software and data transfer cable (Model TM-SWA).**

Key features:

■ **Displays T1, T2, and T1-T2 simultaneously**

■ **Accepts six different thermocouple types**

■ **Outputs real time measurement data with time stamp**

■ **Deluxe carrying case and two Type K probes**

No hassle warranty

No waiting.

No shipping charges.

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

WARRANTY
NO HASSLE
PROGRAM

TMD90A

N10140

TMD90A Technical Specifications

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)

Temperature Accuracy

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

Included Accessories

TMD90A dual input thermometer, two standard Type K thermocouple probes (TP-255A), hard carrying case, battery (installed) and user manual.

Optional Accessories

TM-SWA RS232 Cable and Software

• Record both channels simultaneously

• Store real-time results for further analysis

• Chart measurements for trends

• View time stamp for event analysis

Amprobe® Test Tools
website: www.Amprobe.com
email: info@amprobe.com
6920 Seaway Blvd.
Everett, WA 98203
tel: 877-AMPROBE

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

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