



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## TMD90A Digital Thermometer

Dual input, wide measurement ranges

### 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.

- 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 back-light 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).



TMD90A



**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	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)



**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**  
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