



TC253B Temperature Adapter

Converts your multimeter to a thermometer

Key features:

- °C/°F switchable
- Uses type K thermocouple sensor
- Includes TP255A bead probe
- -50 °C to 1000 °C (-58 °F to 1832 °F)

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.

(note: \$500 MSLP limit)

Included Accessories

TC255A K-type bead probe, battery and users manual.

Optional Accessories

TP255A	Replacement Bead Probe
TP254A	Immersion Probe
MH101KA	Master Handle Probe
TP110KA	Immersion Probe*
TP120KA	Surface Probe*
TP130KA	Air Probe*

**TP110KA, TP120KA and TP130KA require MH101KA handle*



TC253B Temperature Adapter

Data Sheet

General Specifications

Output	1 mV DC per 1 °C or 1 °F
Operating Ambient	0 % to 80 % R.H. (0 °C to 35 °C); 0 % to 70 % (35 °C to 50 °C) R.H.
Storage Temperature	- 20 °C to 60 °C, 0 to 80 % R.H. with battery removed
Temperature Coefficient	0.15 x specification/°C, (< 18 °C or > 28 °C)
Power	Standard 9 V battery, NEDA 1604, JIS 006P, IEC 6F22
Battery Life (typical)	300 hours alkaline
Low Battery	Battery voltage shown when switch is in OFF position, replace if < 7.1 V
Input Connector	Accepts standard miniature thermocouple connectors (flat blades, spaced 7.9 mm, center to center)
Dimensions (HxWxD)	122 mm x 46 mm x 30 mm (4.8 in x 1.8 in x 1.1 in)
Weight (including batteries)	114 g (4 oz)

Specifications

Function	Range	Accuracy
°C Mode	- 50 °C to - 20 °C	± (2.0 % rdg + 2 °C)
	- 19 °C to 350 °C	± (0.5 % rdg + 2 °C)
	351 °C to 500 °C	± (2.0 % rdg + 2 °C)
	501 °C to 1000 °C	± (2.9 % rdg + 2 °C)
°F Mode	- 58 °F to - 4 °F	± (2.0 % rdg + 4 °F)
	- 3 °F to 662 °F	± (0.5 % rdg + 4 °F)
	663 °F to 932 °F	± (2.0 % rdg + 4 °F)
	933 °F to 1832 °F	± (2.9 % rdg + 4 °F)
Input Protection	60 V DC or 24 V rms	
TP255A Bead Thermocouple		
Temperature Range	- 40 °C to 204 °C (- 40 °F to 400 °F)	
Tolerances	0 °C to 204 °C	± (2.2 °C or 0.75 %)
	0 °C to - 40 °C	± (2.2 °C or 2.0 %)
Wire Length	1 meter, with miniature plug, Teflon tape insulated	

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

Amprobe® Test Tools Europe
In den Engematten 14
79286 Glottertal, Germany
Tel.: +49 (0) 7684 8009 - 0

©2007 Amprobe Test Tools. All rights reserved.
9/2007 PN: 1646634 D-US-N Rev D