

## Data Sheet

# TC253A

## Temperature Adapter



## Converts your multimeter to a thermometer

- °C/°F switchable
- Uses type K thermocouple sensor
- Includes TP255 bead probe
- -50 °C to 1000 °C (-58 °F to 1832 °F)

### 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)
<b>Input Protection</b>	60 V dc or 24 V rms	
<b>TP-255 Bead Thermocouple</b>		
<b>Temperature Range</b>	- 40 °C to 204 °C (- 40 °F to 400 °F)	
<b>Tolerances</b>	0 °C to 204 °C	± (2.2 °C or 0.75 %)
	0 °C to - 40 °C	± (2.2 °C or 2.0 %)
<b>Wire Length</b>	1 meter, with miniature plug, Teflon tape insulated	

### General Specifications

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

### Included Accessories

K-type bead probe, battery and users manual.

### Optional Accessories

TP255	Replacement Bead Probe
TP254	Immersion Probe
MH101K	Master Handle Probe
TP110K	Immersion Probe*
TP120K	Surface Probe*
TP130K	Air Probe*

\*TP110K, TP120K and TP130K require MH101K handle

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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

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