

# Model TC253A

## Thermocouple Adapter



- Adds thermometer function to DMM
- °C/°F switchable
- Uses type K thermocouple sensor
- Includes TP255 bead probe

### TC253A Temperature Specifications

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	
TP-255 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

### General Specifications

Output is 1 mV DC per 1 °C or 1 °F; **Indoor Use; Operating Ambient:** 0 % to 80 % R.H. (0 to 35 °C); 0 % to 70 % (35 to 50 °C) R.H.; **Storage Temperature:** - 20 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; **Dimensions (HxWxD):** 122 x 46 x 30 mm (4.8" x 1.8" x 1.1"); **Weight (including batteries):** 114 grams (4 oz); **Input Connector:** Accepts standard miniature thermocouple connectors (flat blades, spaced 7.9 mm, center to center)

### Optional Accessories

TP-255 Replacement Bead Probe; TP-254 Immersion Probe with Handle; MH101K Master Handle Probe; TP110K Immersion Probe\*; TP120K Surface Probe\*; TP130K Air Probe\*

\*TP110K, TP120K, & TP130K require MH101K handle



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**The right tool for the job.™**

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