



Small Diameter Probe THERMOCOUPLES

Utilizing ultra-thin MgO-based probes in thermocouples provides benefits such as rapid response, reduced intrusion in the environment, flexibility for tight spaces, and enhanced accuracy due to lower heat conduction. Additionally, ungrounded junctions offer electrical isolation and minimal thermal lag.

Temprel's new 0.020", 0.032" and 0.040" wire thermocouples offer many customization options to fit your application needs.

Our small-diameter thermocouple products offer:

- ✓ Fast response time
- ✓ Designed for tight spaces
- ✓ Grounded or Ungrounded Junctions
- ✓ Made with special limits of error (SLE) material
- ✓ Reliable Performance
- ✓ Customization Options

Typical applications include electric motor instruments, batteries, catalytic converters, engine cylinders, etc.



www.temprel.com



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"Empowering people with test data to inspire innovation"

Small Diameter Probe

THERMOCOUPLES

Thermocouples



T21 - Probe Thermocouples

Quick disconnect thermocouple with compacted MgO insulation employing a glass-filled, nylon connector directly on the sheath

Calibration Options: T, K, E, J

Connectors: Mini Plug, Mini Jack, Standard Plug, Standard Jack

Junction Type: Grounded, Ungrounded

Probe Diameter: 0.020", 0.032", 0.040"

Probe Material: Inconel, Stainless Steel (304, 310, 316)



T26 - Probe Thermocouples with flexible lead

Quick disconnect thermocouple with compacted MgO insulation employing a glass-filled, nylon connector directly on the sheath

Calibration Options: T, K, E, J

Connectors: Mini Plug, Mini Jack, Standard Plug, Standard Jack, Stripped Leads

Junction Type: Grounded, Ungrounded

Probe Diameter: 0.020", 0.032", 0.040"

Probe Material: Inconel, Stainless Steel (304, 310, 316)

	Operating Range	Special Limits of Error	Each Conductor	ANSI Color Coding
T	0 - 350°C (32 - 660°F) -200 - 0°C (-325 - 32°F)	± .5 °C or ± .4% of Reading ± 1.0 °C or ± 1.5% of Reading	Pos. Blue Neg. Red	Blue
K	0 - 1250°C (32 - 2280°F) -200 - 0°C (-325 - 32°F)	± 1.1 °C or ± .4% of Reading ± 2.2 °C or ± .2% of Reading	Pos. Yellow Neg. Red	Yellow
E	0 - 900°C (32 - 1650°F) -200 - 0°C (-200 - 32°F)	± 1.0 °C or ± .4% of Reading ± 1.7 °C or ± .1% of Reading	Pos. Purple Neg. Red	Purple
J	0 - 750°C (32 - 1380°F)	± 1.1 °C or ± .4% of Reading	Pos. White Neg. Red	Black

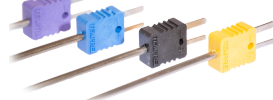
Connectors

Multiple options available including:

Miniature Jack & Plugs

Standard Jack & Plugs

Standard & Custom Panels



Wire

Sold by the foot

Special Limits of Error (SLE)

Wire Insulation: FEP, PFA, PVC, Fiberglass & High temp Fiberglass, Polyimide

Wire Gauge: 36-20 Gauge

