



A Fluke Company

# Furnace Tracker<sup>®</sup> Kiln Tracker<sup>®</sup>

*Thermocouple cables – designed and tested to last longer and provide greater flexibility*

- Various thermocouples available for high temperature applications in the heat treatment and ceramic industries
- Specified to ANSI MC96.1 Special Limits of Error  $\pm 0.4\%$  or  $\pm 1.1^{\circ}\text{C}$  ( $\pm 2^{\circ}\text{F}$ ) whichever is greater
- Type N can be supplied for Furnace Survey applications



PA0710 Thermocouple



PA0760 Thermocouple



PA0370 Thermocouple



PA1580 Thermocouple

## FURNACE THERMOCOUPLE RANGE

### Type K 1.5 mm (0.05 in) diameter mineral insulated

For all general furnace profiling applications. Nicrobel sheath protects against electrical 'noise' and furnace atmosphere.

Probe insulation material	Nicrobel 'D'
Maximum operating temperature	1250°C (2282°F)
Termination	Miniature plug
Hot Junction	Insulated

### Type K 3.0 mm (0.1 in) diameter mineral insulated

For high temperature steel re-heat applications. The larger diameter is less prone to shunt errors, while retaining flexibility for set-up.

Probe insulation material	Nicrobel 'D'
Maximum operating temperature	1300°C (2372°F)
Termination	Miniature plug plus PTFE tails
Hot Junction	Insulated

### Type K 'Nextel' insulated

Best for low temperature applications or where fast response from open junction is needed (e.g. TV tube 'frit sealing'.) No resistance to furnace atmosphere (e.g. carburizing), or electrical 'noise'.

Probe insulation material	Braided 'Nextel' fiber
Maximum operating temperature	1000°C (1832°F)
Termination	Miniature plug
Hot Junction	Open

### Type N 2.0 mm (0.07 in) diameter mineral insulated

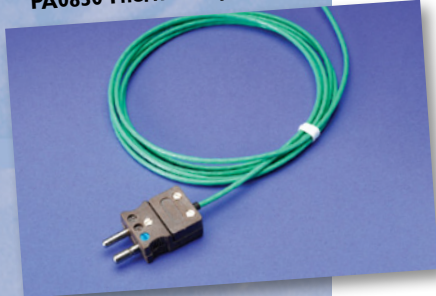
For furnace survey applications. Type N is less susceptible to oxidation and in some circumstances can be re-used for surveys.

Probe insulation material	Nicrobel 'D'
Maximum operating temperature	1250°C (2282°F)
Termination	Miniature plug
Hot Junction	Insulated

# TECHNICAL SPECIFICATIONS



PA0830 Thermocouple



PA0940 Thermocouple



PA0531 Thermocouple



PA0710 Thermocouple



PA1063 Thermocouple

## Type K high temperature glass fiber insulated probes

For use in auto windscreen forming applications.

Used in conjunction with probe kit CS2035.

Probe insulation material	Glass Fiber
Maximum operating temperature	up to 700°C (1292°F)
Termination	Miniature plug
Hot Junction	Open

## Type K heavy duty PTFE insulated probes

For use with pressure thermal barrier in 'wet' or dry autoclave applications.

Probe insulation material	PTFE
Maximum operating temperature	up to 265°C (509°F)
Termination	Standard plug
Hot Junction	Insulated

## KILN THERMOCOUPLE RANGE

- Specified to ANSI MC96.1 Special limits of error  $\pm 0.4\%$  or  $\pm 1.1^\circ\text{C}$  ( $\pm 2^\circ\text{F}$ ) whichever is greater
- 'Noble' metal thermocouple assemblies are not supplied.

### Type K 3.0 mm (0.1 in) diameter mineral insulated

Flexible after high temperature operation. Resists 'flashing' atmosphere in kiln.

For tunnel kiln applications, (e.g. brick, roof tile, etc.)

Probe insulation material	Nicrobel 'D' sheath
Maximum operating temperature	1250°C (2282°F)
Termination	Standard plug
Hot Junction	Insulated

### Type K 1.5 mm (0.05in) diameter mineral insulated

Flexible after high temperature operation.

For roller hearth kiln applications, (e.g. tiles, sanitaryware, etc.)

Probe insulation material	Nicrobel 'D' sheath
Maximum operating temperature	1250°C (2282°F)
Termination	Miniature plug
Hot Junction	Insulated

### Compensating cable for type R/S probes

Supplied with R/S systems. Connects to thermocouple junction box beneath kiln car.

Also available in Type B.

Probe insulation material	Glass Fiber
Probe material	Copper vs Copper/Nickel
Maximum operating temperature	300°C (572°F)
Termination	Standard plug (large)

## The Worldwide Leader in Temperature Profiling



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