

## Data sheet

# Mineral Insulated Thermocouples

Type 'K' with threaded pot & tails – 310 stainless steel or Inconel® Alloy 600 sheath

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- Mineral insulated Type 'K' Thermocouple
- Choice of 310 stainless steel or Inconel® Alloy 600 sheath
- Highly flexible, sheath can be bent/formed to suit many applications and processes
- Probe temperature range -40°C to +1100°C
- M8 x 1.0mm fine pitch threaded pot seal (200°C)
- 100mm tails, PFA twin twisted 7/0.2mm, colour coded to IEC 584

### Specifications

Sensor type:	Type 'K' (Nickel Chromium/Nickel Aluminium) to IEC 584
Construction:	Flexible mineral insulated probe with 310 stainless steel or Inconel® Alloy 600 sheath with M8 x 1.0mm fine pitch threaded pot seal & tails
Element/hot junction:	Single element, junction insulated from sheath (offers protection against spurious electrical signals)
Termination:	100mm PFA twin twisted 7/0.2mm tails, +green/-white colour coded in accordance with IEC 584
Probe temperature range:	-40°C to +1100°C >1.0mm diameter -40°C to +750°C – 1.0mm diameter and below
Pot seal rating:	200°C

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## Mineral Insulated Thermocouples

Type 'K' with threaded pot & tails – 310 stainless steel or Inconel® Alloy 600 sheath

**310 stainless steel:** Good corrosion & oxidation resistance to suit a wide range of processes, satisfactorily operates in sulphur bearing atmospheres  
 Typical applications include brick & cement kilns, glass industry, heat treatment & annealing furnaces, power stations, flues, heat exchangers etc.

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	+Positive tail wire	-Negative tail wire	order code
K	1.0	150	310SS	Green	White	XF-1894-FAR
K	1.0	250	310SS	Green	White	XF-1920-FAR
K	1.0	500	310SS	Green	White	XF-1883-FAR

**Inconel® Alloy 600:** Excellent oxidation resistance to 1100°C (not suitable for sulphur bearing atmospheres above 550°C)  
 Typical applications include heat treatment processes, annealing furnaces, chemical reactors, man -made fibre & synthetic material production, steam boilers, paper industry etc.

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	+Positive tail wire	-Negative tail wire	order code
K	0.5	500	ALLOY 600	Green	White	XF-1910-FAR
K	1.5	500	ALLOY 600	Green	White	XF-1888-FAR
K	1.5	1000	ALLOY 600	Green	White	XF-1887-FAR
K	3.0	500	ALLOY 600	Green	White	XF-1900-FAR
K	3.0	1000	ALLOY 600	Green	White	XF-1889-FAR
K	6.0	2000	ALLOY 600	Green	White	XF-1932-FAR