

## Data sheet Mineral Insulated Thermocouples – 0.5mm GHJ.

Fast response Type 'K' Thermocouple with grounded hot junction, 310 stainless steel or Inconel®Alloy 600 sheath, threaded pot seal & tails



- Mineral insulated Type 'K' Thermocouple
- 0.5mm diameter
- Hot junction of thermocouple grounded to outer sheath for very fast response
- 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 +750°C
- M8 x 1.0mm fine pitch threaded pot seal (200°C)
- M8 locknuts available as an option (see below)
- 100mm tails, PFA Teflon® twin twisted 7/0.2mm
- Conforms to IEC 584

## **Specifications**

Sensor type: Type 'K' Nickel Chromium/Nickel Aluminium to IEC 584-1&2

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

Sheath composition: 310 stainless steel (25/20 chromium nickel steel)

Inconel® Alloy 600 (Nickel, Chromium, Iron)

Element/hot junction: Single element, hot junction grounded to sheath

Termination: 100mm PFA Teflon® twin twisted 7/0.2mm tails, +green/-white colour

coded in accordance with IEC 584-3

Probe temperature range: -40°C to +750°C

Pot seal rating: 200°C



**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	Probe	Probe	Sheath	T/couple	+Positive	-Negative	order
Type	Dia. (mm)	Length (mm)		junction	tail wire	tail wire	code
K	0.5	250	310SS	Grounded	Green	White	XF-1899-FAR
K	0.5	500	310SS	Grounded	Green	White	XF-1880-FAR

**Inconel® Alloy 600:** Excellent oxidation resistance, 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	Probe	Probe	Sheath	T/couple	+Positive	-Negative	order
Type	Dia. (mm)	Length (mm)		junction	tail wire	tail wire	code
K	0.5	500	Alloy 600	) Grounded	Green	White	XF-1890-FAR