

Datasheet

ANSI Mineral Insulated Thermocouples – 0.5mm Diameter for a Fast Response

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



- Mineral insulated Type 'K' Thermocouple
- 0.5mm diameter
- Hot junction of thermocouple insulated or grounded to outer sheath for very fast response
- Choice of 310 stainless steel
- 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)
- 100mm tails, PFA Teflon® twin twisted 7/0.2mm
- Conforms to ANSI MC96.1

Specifications

Sensor type:	Type 'K' Nickel Chromium/Nickel Aluminium to ANSI MC96.1
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 insulated or grounded to sheath
Termination:	100mm PFA Teflon® twin twisted 7/0.2mm tails, +Yellow/-Red colour coded in accordance with ANSI MC96.1
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.

Grounded

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	T/couple junction	+Positive tail wire	-Negative tail wire	order
K	0.5	250	310SS	Grounded	Yellow	Red	XF-1914-FAR
K	0.5	500	310SS	Grounded	Yellow	Red	XF-1905-FAR

Insulated

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	T/couple junction	+Positive tail wire	-Negative tail wire	order
K	0.5	150	310SS	Insulated	Yellow	Red	XF-1923-FAR
K	0.5	250	310SS	Insulated	Yellow	Red	XF-1916-FAR
K	0.5	500	310SS	Insulated	Yellow	Red	XF-1891-FAR