

Datasheet

ANSI Mineral Insulated Thermocouples with Threaded Pot

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



- 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
- Diameters include 1.0, 1.5, 3.0 & 6.0mm
- Insulated hot junction
- 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 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
Element/hot junction:	Single element, junction insulated from sheath (offers protection against spurious electrical signals)
Termination:	100mm PFA twin twisted 7/0.2mm tails, +yellow/-white colour coded in accordance with ANSI MC96.1
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

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	Yellow	Red	XF-1893-FAR
K	1.0	250	310SS	Yellow	Red	XF-1912-FAR
K	1.0	500	310SS	Yellow	Red	XF-1908-FAR
K	1.0	1000	310SS	Yellow	Red	XF-1929-FAR
K	1.5	500	310SS	Yellow	Red	XF-1921-FAR
K	1.5	1000	310SS	Yellow	Red	XF-1927-FAR
K	3.0	1000	310SS	Yellow	Red	XF-1936-FAR
K	3.0	2000	310SS	Yellow	Red	XF-1940-FAR
K	6.0	2000	310SS	Yellow	Red	XF-1944-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	1.0	1000	ALLOY 600	Yellow	Red	XF-1892-FAR
K	1.5	500	ALLOY 600	Yellow	Red	XF-1941-FAR
K	1.5	1000	ALLOY 600	Yellow	Red	XF-1917-FAR
K	3.0	1000	ALLOY 600	Yellow	Red	XF-1931-FAR
K	3.0	2000	ALLOY 600	Yellow	Red	XF-1930-FAR