

Datasheet

IEC Mineral Insulated Thermocouple with Standard Thermocouple Plug

Type 'K' or 'J', 4.5 diameter with insulated hot junction (un-grounded)



(image shows 6.0mm diameter probe)

- Mineral insulated Type 'K' or 'J' Thermocouple
- Type 'K' uses 310 stainless steel sheath, type 'J' uses Stainless steel 321 sheath
- Highly flexible, sheath can be bent/formed to suit many applications and processes
- 4.5mm diameters
- Insulated hot junction
- Probe temperature range -40°C up to +1100°C
- Standard plug termination (200°C)
- Conforms to IEC 584 specification

Specifications

Sensor type:	Type 'K' with Chromium/ Aluminium conductors Type 'J' with Iron / Constantan conductors
Construction:	Flexible mineral insulated probe, 310/321 stainless steel sheath & standard plug termination
Sheath composition:	310 stainless steel (25/20 chromium nickel steel)
Element/hot junction:	Single element, junction insulated from sheath in order to prevent electrical noise & interference
Termination:	Standard round pin plug, colour coded 'green' in accordance IEC 584-3
Reference Tables/Tolerance:	In accordance with IEC 584-1&2
Probe temperature range:	-40°C to +1100°C
Plug temperature range:	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	Thermocouple junction	order Code
K	4.5	150	310SS	Insulated	XF-1403-FAR
K	4.5	300	310SS	Insulated	XF-1404-FAR
K	4.5	500	310SS	Insulated	XF-1405-FAR
K	4.5	750	310SS	Insulated	XF-1406-FAR
K	4.5	1000	310SS	Insulated	XF-1407-FAR

Type 'J' - 321 stainless steel sheath:

Excellent corrosion resistance, retains good ductile properties to suit a wide range of industrial applications & processes

Typical applications include heat treatment & annealing furnaces, aluminium heat treatment, chemical reactors, plastic/rubber moulding industry, polythene manufacture, coal plants, paper mills, textile industry etc.

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	Thermocouple junction	order code
J	4.5	150	321SS	Insulated	XF-1408-FAR
J	4.5	300	321SS	Insulated	XF-1409-FAR