

Data sheet

Mineral Insulated Thermocouples

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
- 0.5mm diameter fast response option, other 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)
- M8 locknuts available as an option (see below)
- 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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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	RS order code
K	0.5	150	310SS	Green	White	444-1231
K	0.5	250	310SS	Green	White	444-1247
K	0.5	500	310SS	Green	White	444-1253
K	0.5	1000	310SS	Green	White	787-7866
K	1.0	150	310SS	Green	White	787-7822
K	1.0	250	310SS	Green	White	787-7826
K	1.0	500	310SS	Green	White	787-7835
K	1.0	1000	310SS	Green	White	219-4359
K	1.0	1500	310SS	Green	White	787-7838
K	1.0	2000	310SS	Green	White	787-7832
K	1.5	150	310SS	Green	White	228-7445
K	1.5	250	310SS	Green	White	228-7451
K	1.5	500	310SS	Green	White	219-4365
K	1.5	1000	310SS	Green	White	219-4371
K	1.5	1500	310SS	Green	White	787-7841
K	1.5	2000	310SS	Green	White	787-7844
K	3.0	150	310SS	Green	White	228-7467
K	3.0	250	310SS	Green	White	228-7489
K	3.0	500	310SS	Green	White	219-4387
K	3.0	1000	310SS	Green	White	219-4393
K	3.0	1500	310SS	Green	White	787-7848
K	3.0	2000	310SS	Green	White	219-4416
K	4.5	150	310SS	Green	White	787-7857
K	4.5	250	310SS	Green	White	787-7850
K	4.5	500	310SS	Green	White	787-7854
K	4.5	1000	310SS	Green	White	7877863
K	6.0	250	310SS	Green	White	228-7495
K	6.0	500	310SS	Green	White	228-7502
K	6.0	1000	310SS	Green	White	219-4422
K	6.0	2000	310SS	Green	White	219-4438



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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	RS order code
K	0.5	500	ALLOY 600	Green	White	444-1269
K	1.0	1000	ALLOY 600	Green	White	219-4450
K	1.5	500	ALLOY 600	Green	White	219-4466
K	1.5	1000	ALLOY 600	Green	White	219-4472
K	3.0	500	ALLOY 600	Green	White	219-4488
K	3.0	1000	ALLOY 600	Green	White	219-4494
K	3.0	2000	ALLOY 600	Green	White	219-4501
K	3.0	3000	ALLOY 600	Green	White	455-3750
K	6.0	1000	ALLOY 600	Green	White	219-4517
K	6.0	2000	ALLOY 600	Green	White	219-4523

Optional M8 x 1 fine pitch threaded Locknuts:

Brass:



Thread
Brass M8 x 1mm

RS order code
762-1162

Stainless Steel:



Thread
S/Steel M8 x 1mm

RS order code
762-1187