



LABFACILITY

TEMPERATURE & PROCESS TECHNOLOGY

IEC Mineral Insulated Thermocouples

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

About Labfacility

Formed in 1971, Labfacility specialize in the field of Temperature and Process Measurement.

We are the largest UK manufacturer of both temperature sensors and thermocouple connectors

Quality & Service

Quality and Service are key elements in the continued growth of Labfacility.

Technical support is always freely available from our experienced technical sales teams and the company has ISO9001 accreditation.

Contact Details

Email
sales@labfacility.com

Website
www.labfacility.com



- ◆ 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
- ◆ 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 IEC 584

Specifications

Sensor type:	Type 'K' (Nickel Chromium/Nickel Aluminium) to IEC 584 Type 'N' (Nickel-chromium-silicon) 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, 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 (Type 'N' 1200°C)
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	Probe Dia. (mm)	Probe Length (mm)	Sheath	Manufacturing Part No.	Farnell code
K	0.5	150	Insulated	KMI/0.5X150(IEC)	721-8898
K	0.5	1000	Grounded	MD-GSK-S05-1000-P5-I	242-0267
K	0.5	1000	Insulated	MD-ISK-S05-1000-P5-I	242-0291
K	1	150	Insulated	KMI/1X150 (IEC)	707-8110
K	1	250	Insulated	KMI/1X250 (IEC)	707-8122
K	1	500	Insulated	KMI/1X500 (IEC)	707-8134
K	1	1500	Insulated	MD-ISK-S10-1500-P5-IEC	242-0283
K	1	2000	Insulated	MD-ISK-S10-2000-P5-IEC	242-0285
K	1.5	150	Insulated	KMI/1.5X150 (IEC)	707-8146
K	1.5	250	Insulated	KMI/1.5X250 (IEC)	707-8158
K	1.5	500	Insulated	KMI/1.5X500 (IEC)	707-8160
K	1.5	1000	Insulated	KMI/1.5X1000 (IEC)	707-8171
K	1.5	1500	Insulated	MD-ISK-S15-1500-P5-IEC	242-0281
K	1.5	2000	Insulated	MD-ISK-S15-2000-P5-IEC	242-0282
K	3	150	Insulated	KMI/3X150 (IEC)	707-8183
K	3	250	Insulated	KMI/3X250 (IEC)	707-8195
K	3	500	Insulated	KMI/3X500 (IEC)	707-8201
K	3	1000	Insulated	KMI/3X1000 (IEC)	707-8213
K	3	1500	Insulated	MD-ISK-S30-1500-P5-IEC	242-0286
K	4.5	150	Insulated	MD-ISK-S45-150-P5-IEC	242-0287
K	4.5	250	Insulated	MD-ISK-S45-250-P5-IEC	242-0288
K	4.5	500	Insulated	MD-ISK-S45-500-P5-IEC	242-0289
K	4.5	1000	Insulated	MD-ISK-S45-1000-P5-IEC	242-0290
K	6	500	Insulated	KMI/6X500 (IEC)	707-8237

Mineral-insulated, metal-sheathed probes using type N (Nitrosil/Nisil), a base metal thermocouple which offers significant advantages over type K.

T/C Type	Probe Dia. (mm)	Probe Length (mm)	Sheath	Manufacturing Part No.	Farnell code
N	3	150	Insulated	NMI/3X150 (IEC)	707-9072

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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	Probe Dia. (mm)	Probe Length (mm)	Sheath	Manufacturing Part No.	Farnell code
K	1.5	500	Insulated	MD-ISK-I15-500-P5-I	208-1299
K	1.5	1000	Insulated	MD-ISK-I15-1000-P5-I	208-1300
K	1.5	1500	Insulated	MD-ISK-I15-1500-P5-I	208-1302
K	3	500	Insulated	MD-ISK-I30-500-P5-I	208-1303
K	3	1000	Insulated	MD-ISK-I30-1000-P5-I	208-1304
K	3	1500	Insulated	MD-ISK-I30-1500-P5-I	208-1305