Thermocouples and Probes — continued

Industrial Mineral Insulated Probes Type N



SERVICES



- Suitable for applications up to 1200°C
- In vacuum or controlled atmospheres, type-N sensors can be used in excess of
- Excellent long-term stability, reliability and high temperature performance
- Lifetime many times that of K-type equivalents at elevated temperatures
- Particularly suitable for industrial applications
- Probes can be bent to enable fitting in awkward locations

Mineral-insulated, metal-sheathed probes using type N (Nitrosil/Nisil), a base metal thermocouple which offers significant advantages over type K. The thermocouple junction is located at the tip and insulated from the sheath.

Nickel-chromium-silicon Sheath material Max. temperature

1200°C M8 1.0mm thread, L = 25mm Pot seal 200°C max. PTFE insulated, L = 100mm Pot temperature Leads

NMI/3 150(IEC) = 707-9072, NMI/3 250(IEC) = 707-9084, NMI/3 500(IEC) = 707-9096 Mftrs. List No.

						SEN293
Probe	Probe				Price Each	
Dia. (mm)	L (mm)	Mftrs. List No.	Order Code	1+	10+	25+
3.0	150	NMI/3 150 (IEC)	707-9072			
3.0	250	NMI/3 250 (IEC)	707-9084			
3.0	500	NMI/3 500 (IEC)	707-9096			

Heavy Duty Thermocouples



Low-cost heavy-duty, stainless steel thermocouples for a variety of applications up to 350°C



LABFACILITY

- Probes have grounded junctions for fast response
- 2 metre leads of rugged, stainless steel braided, fibreglass

Probe L = 150. Dia = 4.76. Lead L = 2m 7/0.2

J-HD-150X(IEC) = 707-9436. K-HD-150X(IEC) = 707-9448

WILLIO, Elot 1400.	0 110 1000(12	0) = 101 0 100,	K 11D 100X(120) = 101 01 K		SEN181
	Order Code	1+	Price Each	25+	
Type J Type K	707-9436 707-9448		101	201	

Industrial Probes with Terminal Head Type K







- Type K mineral-insulated thermocouple probes
- Strong 6mm diameter stainless steel
- stem withstands high pressures
 Waterproof terminal head gives **IP67** protection
- Thermocouple junction located at tip is insulated from the sheath

The terminal head contains terminal block allowing connection to the measuring instrument via an M20 cable gland.



Sheath material 310 stainless steel Terminal head

Die cast aluminium, epoxy coated. Screwed lid with retaining chain IP67 rated

-40°C to +1100°C

FOR SUITABLE COMPRESSION GLAND SEE ORDER CODE 254-654

Probe		Price Each				
Length	Mftrs. List No.	Order Code	1+	5+	10+	25+
150mm	K-150-KNE (IEC)	707-9667				
300mm	K-300-KNE (IEC)	707-9679				
400mm	K-400-KNE (IEC)	.707-9680				

Industrial Process Probes - Type K



Mounting: ½" BSPP male thread

Lagging extension: Dia. = 12.7, L = 75

- Accurate rugged construction
- Terminal head can accommodate DIN form transmitter or DIN terminal blocks
- Sensor is thermocouple type K to IEC 584-3, insulated from sheath Suitable for a wide range of industrial applications
- Wide temperature range: -100°C to +1,100°C
- All stainless steel below aluminium head IP67 rated
- DIN terminal block is made of high temperature green plastic and has 2 terminals

This industrial thermocouple is mounted into the process via 1/2" BSPP male thread below which the probe length is measured. Above the thread hexagon is a stainless steel lagging extension. The sensor has a fitted aluminium terminal head with a captive threaded cover

FOR SUITABLE THERMOCOUPLE 4 – 20MA TRANSMITTER, SEE **ORDER CODE 615-687**

					SEN34
	Mftrs.			Price Each	
Probe Length	List No.	Order Code	1+	5+	10+
100mm	010012TD	725-5603			
150mm	010013TD	725-5615			
Terminal Block	HT-055	725-5627			

Adjustable Bayonet Thermocouple Types J and K





Adjustable bayonet thermocouples designed primarily for the plastics and packaging industry, but recommended wherever spring loaded contact is required

LABFACILITY

SERVICES

LABFACILITY

- Thermocouple junction is housed in a rugged stainless steel tip
- Supplied with 2 metres of stainless steel braided lead fitted with a 170mm spring with adjustable fixing cap
- Separate bayonet adaptor locates via a 1/8" BSP male thread
- Fixing cap of the thermocouple is fitted to the adaptor to ensure secure spring loaded contact
- Suitable for temperatures up to 350°C

						SEN:
			Price Each			
	Mftrs. List No.	Order Code	1+	10+	25+	100+
Type J	J-ABT-2 (IEC)	.707-9801				
Type K	K-ABT-2 (IEC)	.707-9813				
Adaptor		.152-239				
	Type K	Type J J-ABT-2 (IEC) Type K K-ABT-2 (IEC)	Type J J-ABT-2 (IEC) .707-9801 Type K K-ABT-2 (IEC) .707-9813	Type J J-ABT-2 (IEC) .707-9801 Type K K-ABT-2 (IEC) .707-9813	Mftrs. List No. Order Code 1+ 10+ Type J J-ABT-2 (IEC) . 707-9801 Type K K-ABT-2 (IEC) . 707-9813	Mftrs. List No.

Handheld Probes – Type K **Fixed Probes**





Insertion Overall L = 200 Probe L = 105 Lead L = 2m



Surface, disc Overall L = 195, Probe L = 80, Dia = 4.7, Lead L = 1.5m

Surface, coil Overall L = 220, Probe L = 108, Dia = 7.9, Lead L = 1.5m

Overall L = 187, Probe L = 74, Dia = 4.7, Lead = 1.5m

- Hand-held type K thermocouple probes with stainless steel sheath
- Fitted with coiled PVC lead terminated with miniature thermocouple plug