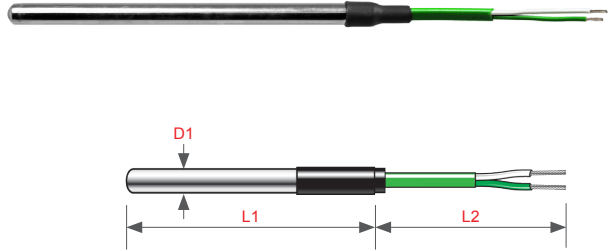


TPC Fabricated Thermocouple Sensor with Crimp Seal Supplied with Heatshrink Strain Relief

Low-cost, fabricated thermocouple sensors available as standard with a 3.0mm, 4.0mm, 4.5mm, 6.0mm or 8.0mm diameter probe. The 316 stainless steel rigid probe has a plain crimped end seal with a PVC heatshrink seal which also acts as a cable strain relief. The temperature rating of the sensor is governed by the temperature rating of the extension cable. For example, a sensor with PVC cable is suitable for use up to +105°C; a sensor with fibreglass cable is suitable for use up to +400°C.

- 3.0 mm, 4.0mm, 4.5mm, 6.0mm or 8.0mm Ø probe
- Accuracy to IEC 60584.2 Class 2 (Class 1 also available)
- IEC 60584.3 colour coded extension cables and connectors
- Ex-stock options available
- In-house calibration service also available



Note: Type K thermocouple shown for illustrative purposes only

1	Sensor Type	Code
	Fabricated Thermocouple Sensor with Crimp Seal and Heatshrink Strain Relief	TPC

2	Conductor/Thermocouple Type (IEC 60584.2)	Conductor Temperature Range	Code
	K Nickel Chromium vs. Nickel Aluminium	0°C to +1100°C	K
	J Iron vs. Constantan	-50°C to +750°C	J
	T Copper vs. Constantan	-200°C to +350°C	T
	N Nicrosil vs. Nisil	0°C to +1200°C	N
	E Nickel Chromium vs. Constantan	-200°C to +900°C	E

3	Metal Sheath Material	Temperature Range	Code
	316 Stainless Steel	0°C to +800°C	316

4	Probe Diameter (D1)	Code
	3.0mm	3.0
	4.0mm	4.0
	4.5mm	4.5
	6.0mm	6.0
	8.0mm	8.0

Imperial sizes also available. Contact sales for further information.

5	Sensing Junction	Number of Channels	Code
	Insulated (isolated, ungrounded)	 Simplex/insulated example Simplex/grounded example	I
	Grounded (non-isolated)		G

6	Probe Length (mm) (L1)	Code
	As required to suit your application (stock sensors also available)	e.g. 300

7	Extension Cable Length (mm) (L2)	Cable Insulation	Code
	As required to suit your application (e.g. 500mm)	Heat Resistant PVC, 7/0.2mm Ø (+105°C) *	CP10
		PFA, 7/0.2mm Ø (+260°C)	CT45
		Fibreglass, 7/0.2mm Ø (+400°C)	CG32
		Fibreglass (St/St Braid), 7/0.2mm Ø (+400°C)	CG39

See pages 44-51 for our full range of Thermocouple cable.

* 6.0mm and 8.0mm probe diameters only

8	Optional Thermocouple Connector (supplied attached to cable)	Code
	Miniature Thermocouple Plug (K, J, T, N, E)	FMP
	Miniature Thermocouple Socket (K, J, T, N, E)	FMJ
	Standard Thermocouple Plug (K, J, T, N, E)	RSP
	Standard Thermocouple Socket (K, J, T, N, E)	RSJ

See pages 53-58 for our full range of Thermocouple connectors.

9		Optional 316 Stainless Steel Compression Fittings (to suit probe diameter)	Code		
			1/8" BSPT	1/4" BSPT	1/2" BSPT
		3.0mm	CF30AS	CF30CS	CF30ES
		4.0mm	CF40AS	CF40CS	CF40ES
		4.5mm	CF45AS	CF45CS	CF45ES
		6.0mm	CF60AS	CF60CS	CF60ES
	8.0mm	-	CF80CS	CF80ES	

Brass adjustable compression fittings also available. See page 63 for our full range.

Important Note: the temperature rating of the sensor is governed by the temperature rating of the extension cable (option 7)

Order Code (example)	1	2	3	4	5	6	7	8	9
	TPC	- K	- 316	- 6.0	- I	- 500	- 500mm CP10	- FMP	- CF60AS