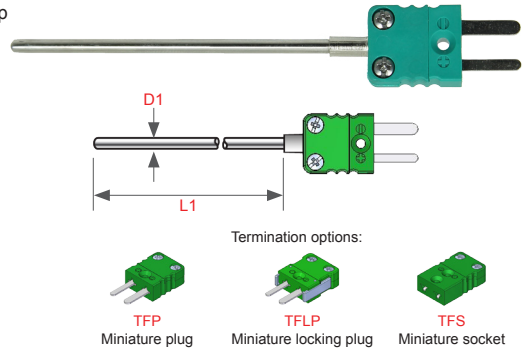


TFP/TFLP/TFS Mineral Insulated Thermocouple Sensor with Miniature Plug/Socket

Commonly used in applications where a quick, simple connection is required. Available with probe diameters ranging from 0.5mm up to 3.0mm and supplied with a miniature flat-pinned plug or socket rated up to +200°C (higher temperature versions also available). Various probe sheath materials are available and the sensors can be used in a wide variety of applications, with temperatures ranging from as low as -100°C and up to +1300°C. The mineral insulated construction enables the sensors to be bent, twisted or flattened without impairing performance. The sensors can be supplied in lengths to suit your application requirements. The bending radius of the sheath is 10 x probe diameter; this can be reduced to 4 x, if a bending set is used.



- 0.5mm, 1.0mm, 1.5mm, 2.0mm or 3.0mm Ø probe
- Accuracy to IEC 60584.2 Class 2 (Class 1 also available)
- Terminated with a miniature thermocouple connector (+200°C)
- Colour coded to IEC 60584.3 (BS EN 60584.3)
- Ex-stock options available

Note: Type K thermocouple shown for illustrative purposes only

1	Sensor Type	Code
	Mineral Insulated Thermocouple Sensor with Miniature Plug	TFP
	Mineral Insulated Thermocouple Sensor with Miniature Locking Plug	TFLP
	Mineral Insulated Thermocouple Sensor with Miniature Socket	TFS

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	Available in Thermocouple Types	Temperature Range	Code
	321 Stainless Steel	K, J, T, E	0°C to +800°C	321
	310 Stainless Steel	K	0°C to +1100°C	310
	Inconel 600	K, N	0°C to +1100°C	600
	Nicrosil D	K, N	0°C to +1300°C	200

4	Probe Diameter (D1)	Code
	0.5mm	0.5
	1.0mm	1.0
	1.5mm	1.5
	2.0mm	2.0
	3.0mm	3.0

Imperial sizes also available. Contact sales for further information.

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

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

7	Optional Miniature Thermocouple Connector To Match Sensor (supplied loose)	Code
	Miniature Thermocouple Socket (to match miniature thermocouple plug) Available in Thermocouple Types K, J, T, N, E	FMJ
	Miniature Locking Thermocouple Socket (to match miniature locking thermocouple plug) Available in Thermocouple Types K, J, T, N, E	FMLJ
	Miniature Thermocouple Plug (to match miniature thermocouple socket) Available in Thermocouple Types K, J, T, N, E	FMP

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

8	Optional 316 Stainless Steel Compression Fittings (to suit probe diameter)	Code		
		1/8" BSPT	1/4" BSPT	1/2" BSPT
	0.5mm	CF05AS	-	-
	1.0mm	CF10AS	-	-
	1.5mm	CF15AS	CF15CS	-
	2.0mm	CF20AS	CF20CS	-
	3.0mm	CF30AS	CF30CS	CF30ES

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

Order Code (example)

1 2 3 4 5 6 7 8
TFP - K - 310 - 1.5 - I - 250 - FMJ - CF15AS

