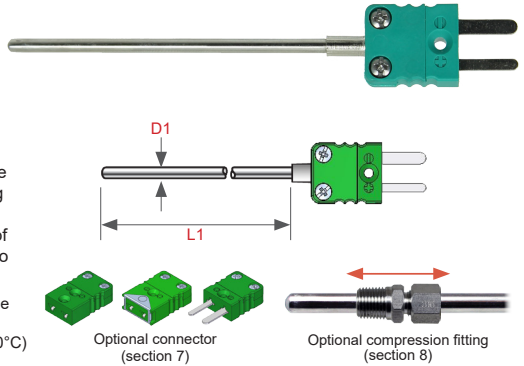


TFP/TFLP/TFS Mineral Insulated Thermocouple Sensor with Miniature Plug/Socket

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 -50...+220°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, 0.75mm, 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 (+220°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 60584.1)		conductor temperature range	code
	Type K	Nickel Chromium vs. Nickel Aluminium	0°C to +1100°C	K
	Type J	Iron vs. Constantan	-50°C to +750°C	J
	Type T	Copper vs. Constantan	-200°C to +350°C	T
	Type N	Nicrosil vs. Nilil	0°C to +1200°C	N
	Type E	Nickel Chromium vs. Constantan	-200°C to +900°C	E

3	metal sheath material	available in thermocouple types	maximum temperature	code
	321 Stainless Steel	K, J, T, E	+800°C	321
	310 Stainless Steel	K	+1100°C	310
	Inconel 600	K, N	+1100°C	600
	Nicrosil D	K, N	+1300°C	200

Also available: **Incoloy 800** (+1100°C), **253MA** (+1150°C), **Alloy C276** (+1100°C). Contact sales for further information.

4	probe diameter (D1)		probe diameter (D1)	
	0.5mm	code 0.5	1.5mm	code 1.5
	0.75mm	code 0.75	2.0mm	code 2.0
	1.0mm	code 1.0	3.0mm	code 3.0

Imperial sizes also available.

5	sensing junction		simplex code
	Insulated (isolated, ungrounded)		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	optional thermocouple connector to match sensor termination - supplied loose (full range pages 53-58)	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

8	optional 316 stainless steel compression fitting (to suit probe diameter)	code		
		1/8" BSPT	1/4" BSPT	1/2" BSPT
	0.5mm	CF05AS	-	-
	0.75mm	CF075AS	-	-
	1.0mm	CF10AS	-	-
	1.5mm	CF15AS	CF15CS	-
	2.0mm	CF20AS	CF20CS	-
	3.0mm	CF30AS	CF30CS	CF30ES

See page 60 for our full range of compression fittings.

order code (example)	1	2	3	4	5	6	7	8
	TFP	- K	- 310	- 1.5	- I	- 250	- FMJ	- CF15AS