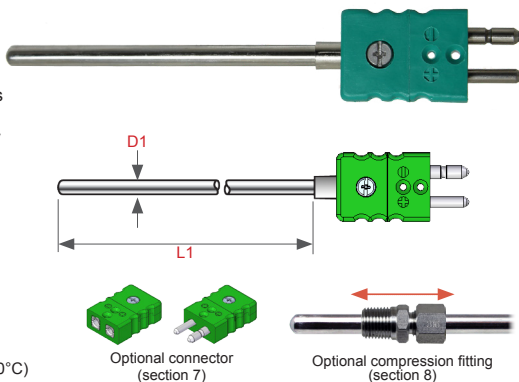


## TRP/TRS Mineral Insulated Thermocouple Sensor with Standard Plug/Socket

Commonly used in applications where a robust sensor with a quick, simple connection is required. Available with probe diameters ranging from 3.0mm up to 8.0mm and supplied with a standard round-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.

- 3.0mm, 4.5mm, 6.0mm or 8.0mm Ø probe
- Accuracy to IEC 60584.2 Class 2 (Class 1 also available)
- Terminated with a standard 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 Standard Plug	TRP
	Mineral Insulated Thermocouple Sensor with Standard Socket	TRS

2	conductor/thermocouple type (IEC 60584.1)	conductor temperature range	code
<b>Type K</b>	Nickel Chromium vs. Nickel Aluminium	0°C to +1100°C	K
<b>Type J</b>	Iron vs. Constantan	-50°C to +750°C	J
<b>Type T</b>	Copper vs. Constantan	-200°C to +350°C	T
<b>Type N</b>	Nicrosil vs. Nisil	0°C to +1200°C	N
<b>Type E</b>	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)	code
	3.0mm	3.0
	4.5mm	4.5
	6.0mm	6.0
	8.0mm	8.0

Imperial sizes also available.

5	sensing junction	simplex code	duplex code
	Insulated (isolated, ungrounded)	I	2I
	Grounded (non-isolated)	G	2G

6	probe length (mm) (L1)	code
	As required to suit your application ( <b>stock sensors also available</b> )	e.g. 300

7	optional thermocouple connector to match sensor termination - supplied loose (full range pages 53-58)	code
	Standard Thermocouple Socket (to match standard thermocouple plug) Available in Thermocouple Types K, J, T, N, E	RSJ
	Standard Thermocouple Plug (to match standard thermocouple socket) Available in Thermocouple Types K, J, T, N, E	RSP

8	optional 316 stainless steel compression fitting (to suit probe diameter)	code		
		1/8" BSPT	1/4" BSPT	1/2" BSPT
	3.0mm	CF30AS	CF30CS	CF30ES
	4.5mm	CF45AS	CF45CS	CF45ES
	6.0mm	CF60AS	CF60CS	CF60ES
	8.0mm	-	CF80CS	CF80ES

See page 60 for our full range of compression fittings.

order code (example)	1	2	3	4	5	6	7	8							
	TRP	-	K	-	600	-	6.0	-	I	-	300	-	RSJ	-	CF60CS

