

TMH Mineral Insulated Thermocouple Sensor with Miniature Head

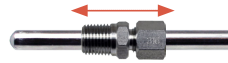
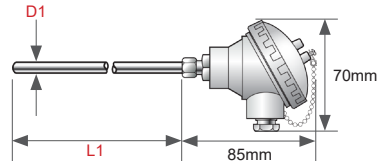
Supplied with a miniature IP67 rated die cast alloy terminal head, the TMH range of sensors provide a compact yet robust construction.

Available with 3.0mm, 4.5mm, 6.0mm and 8.0mm probe diameters, in lengths to suit your application requirements. 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 bending radius of the sheath is 10 x probe diameter; this can be reduced to 4 x, if a bending set is used.

The screw top lid has a robust chain ensuring it remains attached to the head. A ceramic terminal block inside the head makes connections to the extension cable very simple. The head has an M16 x 1.5mm cable entry thread and is supplied with a standard cable gland.

The head is attached to the sensor using a brass compression gland (stainless steel options available on request).

- 3.0mm, 4.5mm, 6.0mm or 8.0mm Ø probe
- Accuracy to IEC 60584.2 Class 1 or Class 2
- Terminated with IP67 rated miniature die cast alloy head (M16 cable entry)
- Colour coded terminals, IEC 60584.3 (BS EN 60584.3)
- Ex-stock options available



Optional compression fitting (section 7)

Note: Type K thermocouple shown for illustrative purposes only

1	sensor type		code
	Mineral Insulated Thermocouple Sensor with Miniature Terminal Head		TMH
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. Nisil	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
	321 Stainless Steel	K, J, T, E	+800°C
	310 Stainless Steel	K	+1100°C
	Inconel 600	K, N	+1100°C
	Nicrosil D	K, N	+1300°C
	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 (stock sensors also available)	e.g. 250		
7	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

Brass adjustable compression fittings also available. See page 60 for our full range.

order code (example)	1	2	3	4	5	6	7
	TMH	- K	- 310	- 6.0	- I	- 300	- CF60CS