

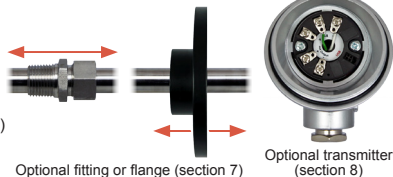
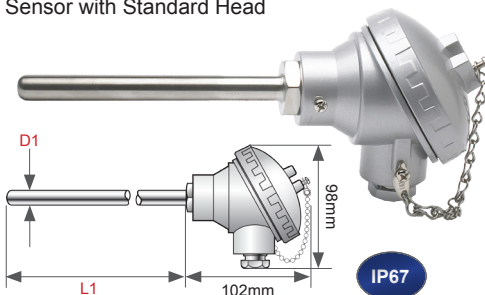
THD Metal Sheathed Heavy Duty Thermocouple Sensor with Standard Head

Commonly used in applications where a robust, heavy duty construction and improved chemical resistance are necessary, such as incinerators. The THD sensors are mechanically strong and available with 12.7mm, 15.8mm and 21.3mm probe diameters, in lengths to suit your application requirements.

As standard they are supplied with an IP67 rated heavy duty die cast alloy terminal head (M20 x 1.5mm cable entry thread). They have a robust 6.0mm diameter, mineral insulated, metal sheathed spring loaded insert (see page 14 for more information) which is mounted into the head via two spring-loaded screws. The spring loading ensures a good contact with the outer sheath which improves the speed of response and performance.

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 sensor can also be supplied with a linearised 4~20mA transmitter which can be pre-ranged to suit your requirements.

- 12.7mm, 15.8mm or 21.3mm Ø metal probe
- Accuracy to IEC 60584.2 Class 1 or Class 2
- Terminated with IP67 rated heavy duty die cast alloy head (M20 cable entry)
- Colour coded terminals, IEC 60584.3 (BS EN 60584.3)
- Spring loaded insert



1	sensor type		code					
	Metal Sheathed Heavy Duty Thermocouple Sensor with Standard Terminal Head		THD					
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					
	Type R Platinum 13% Rhodium vs. Platinum	0°C to +1600°C	R					
	Type S Platinum 10% Rhodium vs. Platinum	0°C to +1550°C	S					
3	metal sheath material	maximum temperature	code					
	316 Stainless Steel	+800°C	316					
	310 Stainless Steel	+1100°C	310					
	Inconel 600 *	+1100°C	600					
	253MA	+1150°C	253					
	Chrome Iron (446)	+1150°C	446					
* May react with Type R or S conductors causing premature failure								
4	probe diameter (D1)		code					
	12.7mm (1/2")		12.7					
	15.8mm (5/8")		15.8					
	21.3mm (13/16")		21.3					
5	sensing junction	simplex code	duplex code					
	Insulated (isolated, ungrounded)	I	2I					
6	probe length (mm) (L1)		code					
	As required to suit your application		e.g. 300					
7	optional 316 stainless steel compression fitting	OR	optional mild steel flange					
	to suit support tube diameter	1/2" BSPT code	3/4" BSPT code					
	12.7mm	CF127ES	CF127GS					
	15.8mm	CF158ES	CF158GS					
	21.3mm	-	CF213GS					
	4" (101mm) mild steel flange code (black, powder coated)							
			FL12					
			FL15					
			FL21					
8	optional head mounting 4~20mA transmitter (replaces ceramic terminal block)		code					
	Linearised, Head Mounting 4~20mA Transmitter, 24VDC Power Supply, Non-isolated (pre-ranged to suit your requirements)		TXHU (range) Example: TXHU (0/200°C)					
See page 83 for a full specification of the TXHU transmitter. Isolated version also available. ATEX versions also available								
order code (example)								
	1	2	3	4	5	6	7	8
	THD	- K	- 316	- 12.7	- I	- 300	- CF127ES	- TXHU (0/200°C)