

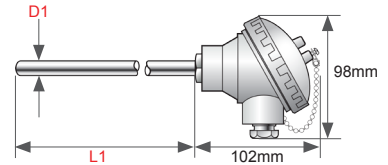
THD Metal Sheathed Heavy Duty Thermocouple Sensor with Standard Head

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 60584.2)	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
R	Platinum 13% Rhodium vs. Platinum	0°C to +1600°C	R
S	Platinum 10% Rhodium vs. Platinum	0°C to +1550°C	S

3	Metal Sheath Material	Temperature Range	Code
	316 Stainless Steel	0°C to +800°C	316
	310 Stainless Steel	0°C to +1100°C	310
	Inconel 600 *	0°C to +1100°C	600
	253 MA	0°C to +1100°C	253
	Chrome Iron	0°C to +1100°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	Number of Channels	Code
Insulated (isolated, ungrounded)		Simplex	I
		Duplex	2I

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

7	Optional 316 Stainless Steel Compression Fittings				Optional Mild Steel Flanges
	To Suit Probe Diameter	1/2" BSPT Code	3/4" BSPT Code		4" (101mm) Mild Steel Flange (Black, Powder Coated)
	12.7mm	CF127ES	CF127GS	FL12	
	15.8mm	CF158ES	CF158GS	FL15	
	21.3mm	-	CF213GS	FL21	

See page 63 for our full range of adjustable compression fittings.

Contact sales for our full range of flanges.

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) e.g. TXHU (0/200°C)

See page 87 for a full specification of the TXHU transmitter. Isolated version also available.

ATEX versions also available (contact sales)

Order Code (example)	1	2	3	4	5	6	7	8
	THD	- K	- 316	- 12.7	- I	- 300	- CF127ES	- TXHU (0/200°C)