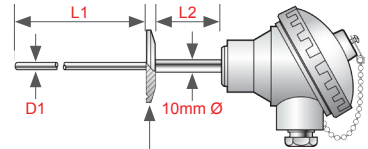
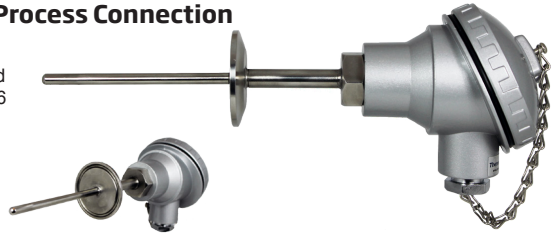


## THY Thermocouple Sensor with Hygienic Process Connection

Ideal for hygienic processes including dairy, brewery and pharmaceutical applications. The THY sensors can be supplied with a 3.0mm, 4.5mm, 6.0mm, 8.0mm or 10.0mm diameter 316 stainless steel probe. Terminal heads are available in IP67 or IP68 rated Die Cast Alloy, Heavy Duty Stainless Steel, Glass Filled Nylon or Polypropylene, with a 20mm x 1.5mm (M20) cable entry. Inside the head is a ceramic terminal block which makes the connections to the extension cables very easy. Available as Simplex or Duplex in Thermocouple types K, J, T or N. A 4~20mA transmitter can be mounted in the terminal head if required. Suitable for use between -75°C and +250°C. A calibration certificate can be provided if required.

- 3.0mm, 4.5mm, 6.0mm, 8.0mm or 10mm Ø 316 stainless steel probe
- Thermocouple Types K, J, T, N
- Ideal for hygienic processes (e.g. dairy, brewery, pharmaceutical)
- Suitable for use between -75°C and +250°C

RTD version: page 38



Tri-clamp flange to BS4825 Part 3 (ISO 2852)  
(specify pipe size)

1	Sensor Type		Code
	Thermocouple Sensor with Hygienic Process Connection		THY

2	Conductor/Thermocouple Type (IEC 60584.2)		Conductor Temperature Range	Code
	<b>K</b>	Nickel Chromium vs. Nickel Aluminium	0°C to +1100°C	K
	<b>J</b>	Iron vs. Constantan	-50°C to +750°C	J
	<b>T</b>	Copper vs. Constantan	-200°C to +350°C	T
	<b>N</b>	Nicrosil vs. Nisil	0°C to +1200°C	N

3	Metal Sheath Material		Temperature Range	Code
	316 Stainless Steel		0°C to +800°C	316

4	Probe Diameter (316 Stainless Steel) (D1)			Code
	3.0mm			3.0
	4.5mm			4.5
	6.0mm			6.0
	8.0mm			8.0
	10.0mm			10.0

5	Sensing Junction		Number of Channels		Code
	Insulated (isolated, ungrounded)			Simplex	I
				Duplex	2I
	Grounded (non-isolated)			Simplex	G
				Duplex	2G

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

7	Connection Type		Code
	Tri-clamp (backnut not required)		T
	RJT (supplied complete with backnut)		R
	IDF (supplied complete with backnut)		I

8	Pipe Size	½" and ¾"	1" and 1 ½"	2"	2 ½"	3"	4"
	Code	A	B	C	D	E	F

9	Extension Length (mm) (L2)		Code
	As required to suit your application		e.g. 100

10	Terminal Head		Code
	Standard Die Cast Alloy		KNE1/2BM20
	Heavy Duty 304 Stainless Steel		KSS1/2BM20
	Standard Plastic (Glass Filled Nylon +200°C)		KNN1/2BM20
	Standard Plastic (Polypropylene +165°C)		KPP1/2BM20

See page 64 for our full range of terminal heads.

11		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.

Order Code (example)	1	2	3	4	5	6	7	8	9	10	11
	THY	- K	- 316	- 4.5	- I	- 300	- T	- C	- 300	- KNE1/2BM20	- TXHU (0/200°C)