

## 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.

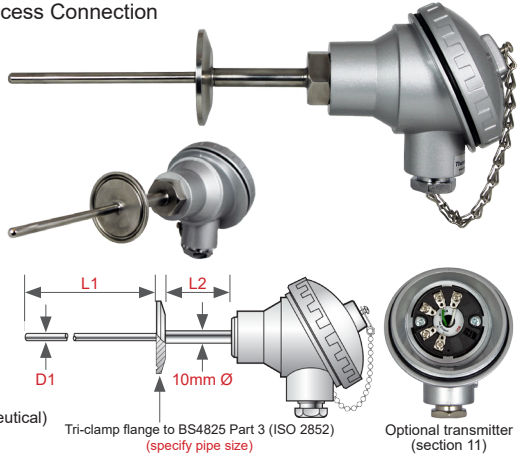
Terminal heads are available in IP67 or IP68 rated Die Cast Alloy, Heavy Duty Stainless Steel, Glass Filled Nylon or Polypropylene, with a 20mm x 1.5mm (M20) cable entry. Inside the head is a ceramic terminal block which makes the connections to the extension cables very easy.


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 +260°C.

A calibration certificate can be provided if required.

- 3.0, 4.5, 6.0, 8.0 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 +260°C



1	sensor type		code			
Thermocouple Sensor with Hygienic Process Connection			THY			
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	
3	metal sheath material		maximum temperature		code	
316 Stainless Steel		+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			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				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 code	½" and ¾"	1" and 1 ½"	2"	2 ½"	3"
		A	B	C	D	E
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		
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) Example: TXHU (0/200°C)	

See page 62 for our full range of terminal heads and fittings.

See page 83 for a full specification of the TXHU transmitter. Isolated version also available.

ATEX versions also available

RTD version page 38	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)