

Thermocouple without head

Model TCW

Standard Probes or inserts without Heads

Features

- High quality TC cable
- Mineral insulated for flexibility and durability
- Custom designs for specific applications

Ranges

-200 up to 1200 °C
-325 up to 2200 °F

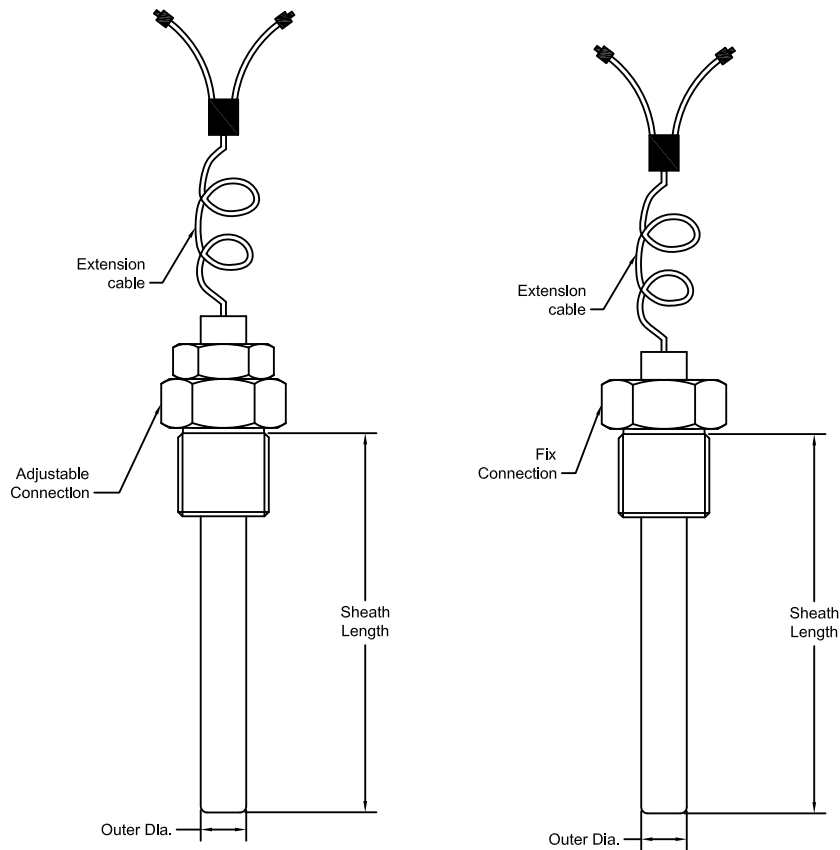
Applications

Chemical and petrochemical industry
Machine and apparatus construction
Pharmaceuticals, Dairy & Food process industry
Pulp and paper industry
Storage Tanks
Power generation
Reactors



Technical specification	TCW				
Element	J, K, T, E, N, others on request				
Element Type	Simplex, Duplex				
Junction	Grounded, Ungrounded				
Extension Cable	Other on request.				
Measuring principle					
Range	J type (-40 to 750°C, -40 to 1380°F), K type (-200 to 1200°C, -325 to 2200°F), T type (-200 to 350°C, -325 to 660°F), E type (-200 to 900 °C, -325 to 1650 °F), N type (-200 to 1200 °C, -325 to 2200 °F), Others on Request				
Sheath diameter	3mm, 4.5mm, 6mm, 8mm, Others on Request				
Sheath length	up to 20000mm				
Process connection	1/4", 1/2", 3/4" NPT/BSP, Fix adjustable				
Material					
Process connection	Stainless steel 316, optional SS 321, Other on request.				
Sheath	Stainless steel 316, optional SS 321, Other on request.				
Extension cable	Teflon-Teflon, Teflon-Teflon with SS braiding, Fiber Glass Other on request.				
Electrical specification					
Insulation	100 X 10 ⁶ ohms minimum insulation when measured at 500 VDC				
General specification					
Accuracy (greater of)	J	K	T	E	N
> 0 °C	±2.2°C or ±0.75%	±2.2°C or ±0.75%	±1.0°C or ±0.75%	±1.7°C or ±0.5%	±2.2°C or ±0.75%
< 0 °C		±2.2°C or ±2.0%	±1.0°C or ±1.5%	±1.7°C or ±1.0%	±2.2°C or ±2.0%
Protection IEC 60529	IP65, IP66 for Ex-Proof				
Accessories, options	Thermowell, Weld-Pad, Connectors etc.				

General drawing



Order information

Model	Element	Element type	Junction	Sheath material	Sheath diameter	Sheath length	Process connection	Connection Type	Extension Cable	Option	
TCW	(J) Iron - Constantan	(S) Simplex	(G) Grounded	(S) SS316	(D3) 3mm ¹⁾	55 to 20000 mm	(=) None	(=) None	(=) None	(NH) Tagging wired	
	(K) Chromel - Alumel	(D) Duplex	(U) Un-grounded	(SA) SS321	(D4.5) 4.5mm		(02) 1/4" NPT (M) ²⁾	(F) Fixed Hex nut	(CA) Stainless steel armored PTFE insulated extension cable		
	(T) Copper - Constantan			(SB) SS310	(D6) 6mm		(04) 1/2" NPT (M)	(D) Adjustable connection sliding on stem	(TT) Teflon- Teflon, extension cable		
	(E) Chromel - Constantan				(D8) 8mm		(05) 3/4" NPT (M)		(TTS) Teflon- Teflon, SS braided extension cable		
	(N) Nicrosil - Nisil				(D64) 1/4"		(13) 1/4" BSP (M) ²⁾		(15) 1/2" BSP (M)		(FF) Fiber- Fiber, extension cable
							(17) 3/4" BSP (M)		(16) M20x1.5 (M)		
Others on request				Others on request							

1) Element type simplex only and max length 5000mm 2) Not available with D8 3) Specify length of extension cable in meter EG. CM1.5 = CM with 1.5m, Max length 20m

How to order

Model	Element	Element type	Junction	Sheath Material	Sheath Diameter	Sheath Length	Process Connection	Connection Type	Extension Cable	Option
TCW	K	S	U	S	D6	100	04	D	TT1.0	NH

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