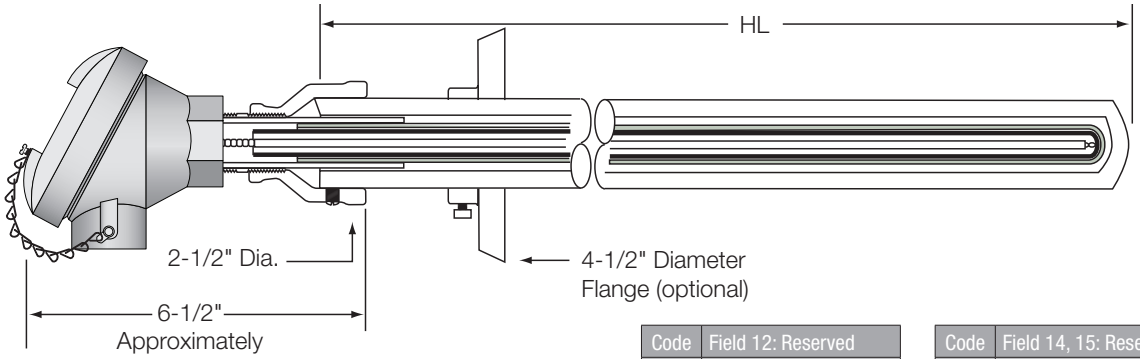
Noble Metal Dual or Triple Tube T/C

Noble Metal Dual or Triple Tube (Ceramic in Silicon Carbide), Straight Thermocouple

The design of this assembly is for the maximum protection of the noble metal element. The primary protection tube (or tubes) protects the element from outside gases while the outer tube of silicon carbide protects the assembly against the cutting action of flames and hot gases. You can choose either high temperature Mullite or aluminum oxide for the primary tube material. High temperature Mullite is not recommended for temperatures above 1800ºF.

Silicon carbide protection tubes have low lag time and long life; high resistance to many corrosive atmospheres and are highly resistant to attack by many molten nonferrous metals.

For use with molten nonferrous metals, brick kilns, ceramic kilns and where the thermocouple is exposed to either flames or hot gases.



Code	Field 12: Reserved
0	Reserved

Code	Field 14, 15: Reserved
00	Reserved

1	2	3	4	-	5	6	7	8	9	-	10	11	12	-	13	-	14	15
				-						-		0	0	-		-	0	0

Field 1

Code	Type	Wire Material
B	Type B	Pt, 6% Rh v Pt, 30% Rh
R	Type R	Pt v Pt, 13% Rh
S	Type S	Pt v Pt, 10% Rh**

Field 2, 3

Gauge	Code	Limits
24	24	Standard
	25	Special*
26	26	Standard (26 GA. Only available with Type S)**

Field 4

Elements	Code	Junction Style	Ground
Single	I	Butt Welded	Ungrounded
Dual	H	Butt Welded	Ungrounded

Field 5, 6

Code	Dual / Triple Protection Tube Material		
	Primary Tube		Secondary Tube/Third Tube
	O.D.	Material	Material
	Dual Protection Tube		
24	11/16"	Mullite	Silicon Carbide Outer Tube
30	11/16"	Alumina	Silicon Carbide Outer Tube
	Triple Protection Tube		
23	3/8"	Mullite	11/16" O.D. Mullite Secondary, Silicon Carbide Outer Tube
29	3/8"	Alumina	

Ceramic tubes are stocked in increments of 6".
** Not available with Type C from Field 1, Code C*
*** Not available with Field 7, Codes 2 or A*

Field 7

Code	Cold End Termination	Code with Transmitter
1	Cast Iron. Obsolete, replace with Code 2	
3	Aluminum. Obsolete, replace with Code A	
2	Weatherproof, cast iron head (NEMA 4X)	S*
A	Weatherproof, aluminum head (NEMA 4X)	T*
4	Weatherproof, 316 SS (NEMA 4X)	U*
E	Explosion proof, aluminum head (NEMA 4X)	V*
F	Explosion proof, blue epoxy, aluminum head (ATEX)	W*
G	Explosion proof, 316 SS head (NEMA 4X)	X*
H	Explosion proof, 316 SS head (ATEX)	Y*

**Must specify the range of the sensor on the order. (i.e., 0ºF - 800ºF)*


Code 2 (S*)


Code A (T*)


Code 4 (U*)


Code E (V*)


Code F (W*)


Code G (X*), H (Y*)

***Add a Transmitter**

Select the code in the Transmitter Code column to add a fully isolated 4 to 20 mA two-wire loop powered temperature transmitter for in-head assembly.

You must specify the range of the sensor on the order. (i.e. 0ºF - 800ºF)

Field 13

Code	Process Mounting Fitting
0	None
2	Adjustable mounting flange

Fields 11

Code	Tube Seal
0	None
8	Sealed and filled with inert gas

Fields 10

Code	Outer Tube Ceramic
2	Dual Tube, Single Ceramic Tube Inside Silicon Carbide
3	Triple Tube, Two Ceramic Tubes Inside Silicon Carbide

Fields 8, 9

Code	Hot Length "HL"
HL	Enter Hot Length in inches using two digits *NOTE: If over 98", specify 99 = "length" on order*

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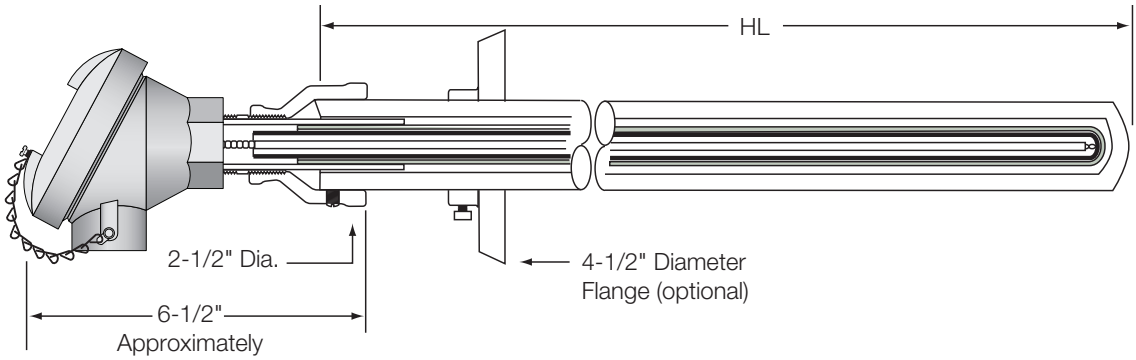

Common Model Numbers

(The numbers below are just some of the more common numbers for this product. There are too many combinations to list them all.)