

MGO Thermocouples

Thermo Sensors MGO thermocouple insulation materials feature Cerampak. These MGO thermocouples are recommended where the thermocouple is immersed in liquids, high moisture, corrosive gases, or high pressures.

Cerampak is a densely compacted ceramic which is very versatile. This weldable and flexible material can withstand temperatures from cryogenic to 2300°F as well as pressures from vacuum to 60,000 psi.

A wide variety of design, sheath material and diameter selections are available to suit application conditions. A variety of heads, connectors or flexible leads can be specified for the termination.



Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.

Cerampak Selection/Hot Junction Selections/Length of Sensor

Table 1




Sheath Diameter	Order Code	ANSI Calibration	Order Code		Sheath Material	Order Code
			Single	Dual		
020"	020	Chromel/Constantan	E	2E	304 St. St.	34
025"	025		310 St. St.	30		
032"	032	Iron/ Constantan	J	2J	316 St. St.	36
040"	040		410 St. St.	40		
3/32"	093	Chromel/Alumel	K	2K	446 St. St.	46
1/16"	1		Inconel 600	60		
1/8"	2	Nicrosil/Nisil	N	2N	Inconel 601	61
3/16"	3		Incoloy 800	80		
1/4"	4	Copper/Constantan	T	2T	Tantalum	99
5/16"	5		Platinum	97		
3/8"	6	Plat 10% RH/Plat	S	2S	Monel	96
1/2"	8		Hastelloy "X"	95		
		Plat 13% RH/Plat	R	2R	Hastelloy "C"	94
			Hastelloy "B"	93		
		Plat 30% RH/PT 6% RH	B	2B	Nickel	92
			H2300	23		

Notes:

1. For Premium Grade (Special Limits of Error) material; add "PG" to the calibration code.
 Example: 4KPG60

A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

Table 2

Hot Junctions		Order Code
	Grounded	G
	Exposed	E
	Ungrounded	U
	Ungrounded and Isolated (Dual - 4 Wire T/C only)	UI
	Welding Pad* Horizontal Grounded	P
	Welding Pad* Horizontal Ungrounded	UP
	Welding Pad* Ungrounded and isolated (Dual T/C only)	UIP
	Welding Pad* Vertical Grounded	VP
	Welding Pad* Vertical Ungrounded	VU
	Welding Pad* Vertical Ungrounded and Isolated (Dual T/C only)	UVI

* 1" x 1" x 1/8" pad furnished. Stainless steel hold-down clips to secure the pad thermocouple horizontally to the process tube are available. (Fits 3/16" & 1/4" O.D. Sensor). Specify Part Number 101-4.

Table 3

Sensor Length	
Refer to your selection of a Cold Junction Termination from Table 4 and specify required Length ("L").	
Order Code:	Specify "L" in Inches and Decimal Increments