

A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

Industrial Thermocouples

Thermo Sensors Industrial thermocouples are widely used in process industry applications. Thermocouples are generally selected by determining the particular conditions under which it must perform. These conditions which have recommended wire and material selections and are grouped in types.



Thermo Sensors thermocouple element types include:

- Type E Chromel-Constantan Thermocouple
- Type J Iron-Constantan Thermocouple
- Type K Chromel-Alumel Thermocouple
- Type N Nicrosil-Nisil Thermocouple
- Type R Platinum-Platinum 13% Rhodium Thermocouple
- Type S Platinum-Platinum 10% Rhodium Thermocouple
- Type B Platinum 6% Rhodium-Platinum 30% Rhodium Thermocouple
- Type T Copper- Constantan Thermocouple

The wire gauge and recommended temperature ranges are of various sizes as well.

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.

Right Angle Assemblies - Pipe Extended



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Calibration	Element* Gauge- AWG	Tube (Hot Leg)		Ordering Code					Options	
		IPS	O.D.	Type	Hot Leg**	Material	Head	Cold Leg		Hot Leg
Type J Iron - Constantan	8 AWG	1/2"	.840	JA42	Select material code from the Material Table in the Thermowell section		Select from table below	Specify in Inches	Specify in Inches	Adjustable Flange - If an adjustable flange is desired, add suffix "A" to complete ordering code.
		3/4"	1.050	JA64						
	1"	1.315	JA40							
Type K Chromel - Alumel	8 AWG	1/2"	.840	KA42						
		3/4"	1.050	KA64						
	1"	1.315	KA40							
Type E Chromel - Constantan	8 AWG	1/2"	.840	EA42						
		3/4"	1.050	EA64						
	1"	1.315	EA40							
Type N Nicrosil - Nisil	8 AWG	1/2"	.840	NA42						
		3/4"	1.050	NA64						
	1"	1.315	NA40							
	8 AWG	1/2"	.840	NB42						
		3/4"	1.050	NB64						
	1"	1.315	NB40							

* a Single or dual element will be furnished according to the type of head selected from the table below.

** All assemblies are supplied with standard hot legs made with schedule 40 pipes. To specify schedule 80 or 160 - insert "(80)" or "(160)" between the "Type" and "Material" selections in the ordering code table. Example: JA42(80)34-A-18-24. Exception: When a cast iron tube (material code 86 or 87) is used, pipe schedules do not apply. See page 41 for dimensions.

Note: An ordering code type having a "64" in it (3/4" IPS) should be used when ordering an angle assembly with a cast iron tube (material code 86 or 87).

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Terminal Head Options		
Head	Terminal Block	Specify
Cast Iron Screw Cover	Single	A
	Dual	AD
Cast Aluminum Screw Cover	Single	B
	Dual	BD

How To Order:

1. Select the type and gauge of element desired, the size of tube available from the first four columns of the table. Specify by "Type" under ordering code.
2. Select desired "Hot Leg" material code from the [Material Table](#) and add to "Type" designation.
3. Select a head from table above and place its code letter next.
4. Specify cold leg length in inches.
5. Specify hot leg length in inches.
6. Specify option next if desired.

For Example:

KA6436 - A - 18 - 24 - A

Type/Matl. Head Cold Leg Hot Leg Option