

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 - 90° Bend



A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

Calibration	Element* Gauge- AWG	Tube (Hot Leg)		Ordering Code					Options
		IPS	O.D.	Type	Hot Leg**	Material	Head	Cold Leg	
Type J Iron - Constantan	8 AWG	1/2" 3/4"	.840 1.050	JA52 JA74	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.
	14 AWG	1/2" 3/4"	.840 1.050	JB53 JB74					
Type K Chromel - Alumel	8 AWG	1/2" 3/4"	.840 1.050	KA52 KA74					
	14 AWG	1/2" 3/4"	.840 1.050	KB52 KB74					
Type E Chromel - Constantan	8 AWG	1/2" 3/4"	.840 1.050	EA52 EA74					
	14 AWG	1/2" 3/4"	.840 1.050	EB52 EB74					
Type N Nicrosil - Nisil	8 AWG	1/2" 3/4"	.840 1.050	NA52 NA74					
	14 AWG	1/2" 3/4"	.840 1.050	NB52 NB74					

* 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 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: JA52(80)36-A- 24-36 for a schedule 80 pipe.

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

A Leading Manufacturer of Quality Thermocouple and RTD Assemblies Since 1972

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 tube 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:

KA748 - A - 18 - 24 - A
Type/Matl. Head Cold Leg Hot Leg Option