



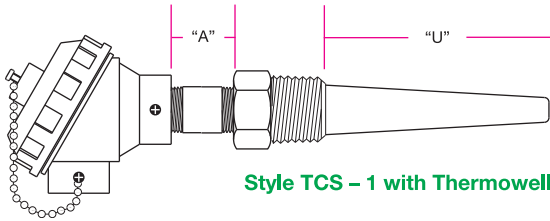
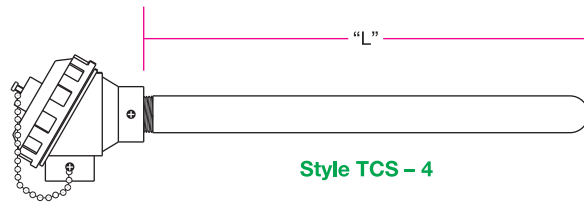
### Industrial Process Thermocouples



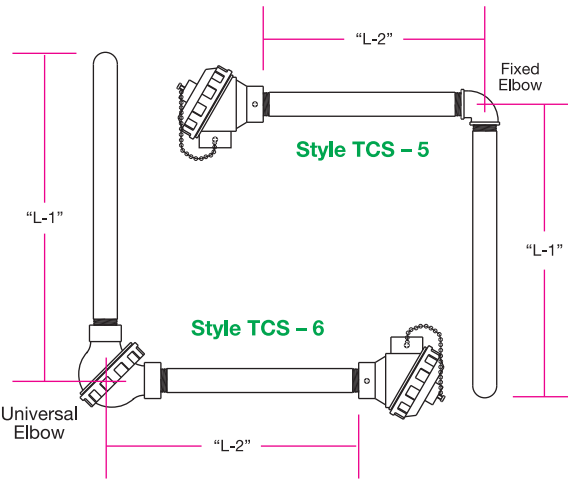
Tempco manufactures many styles of industrial thermocouple assemblies for a wide range of industries, from petrochemical to textile applications, where one or more protection tubes may be necessary to protect the thermocouple.

### Metal Protecting Tube Assemblies

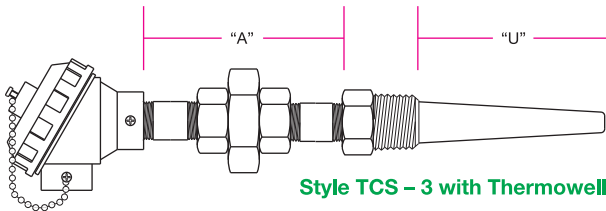
### Thermowell Assemblies



Thermocouple Head, Nipple, Thermowell

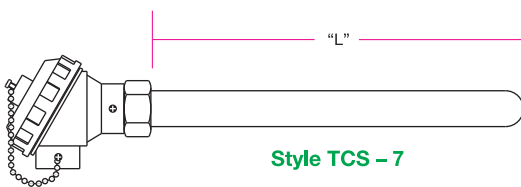


Thermocouple Head, Metal Protecting Tube

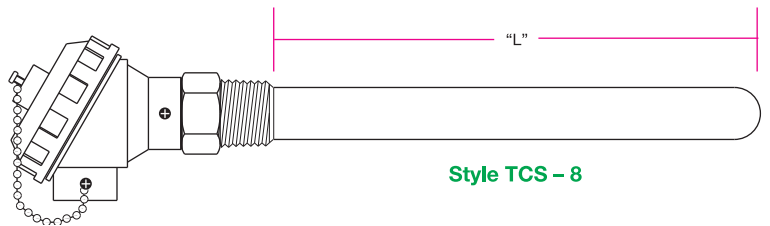


Thermocouple Head, Nipple, Union, Nipple, Thermowell

### Ceramic Tube Assemblies



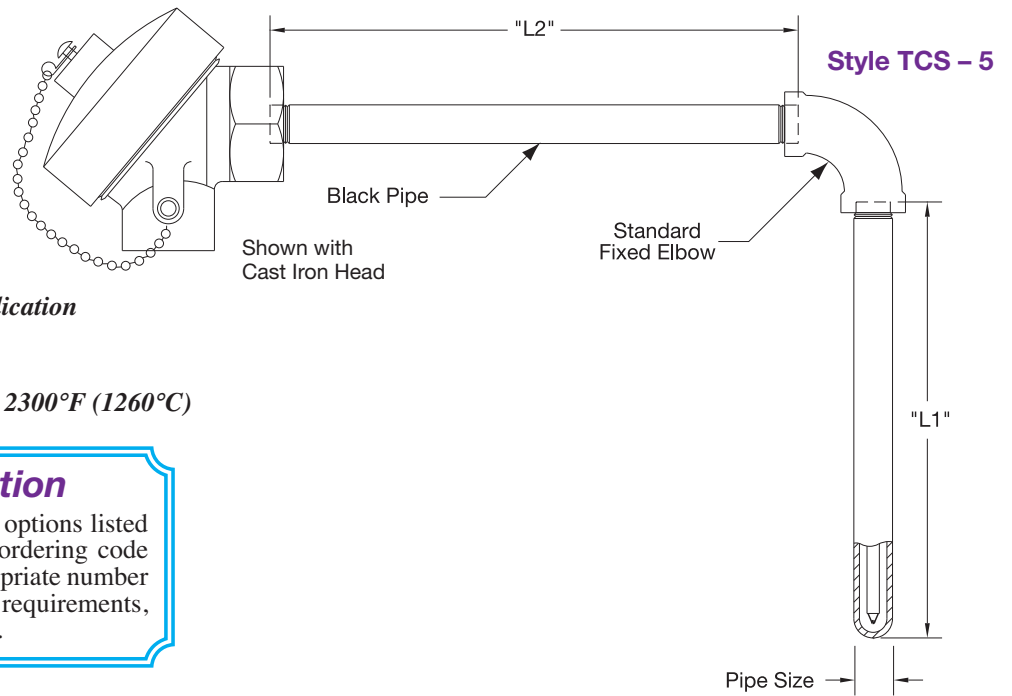
Thermocouple Head, Fixed Bushing, Ceramic Tube



Thermocouple Head, Ceramic Tube



### Metal and Silicon Carbide Protection Tube Thermocouple Assemblies



#### Design Features

- \* Right Angle for Over-the-Side Application
- \* Cast Iron or Aluminum Head
- \* Available with Metal Pipe or Silicon Carbide (Carbon Bonded) 2300°F (1260°C)

#### Ordering Information

Thermocouples are offered with the options listed in the worksheet below. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

Ordering Code: **TCS** -

#### Elbow Type BOX 1

**5** = Standard Fixed Elbow

#### Wire Gauge BOX 5

**B** = 20 ga.  
**C** = 14 ga.  
**D** = 8 ga.

#### Pipe and Tube Size BOX 2

**H** = 1/2" Pipe (.84" OD x .62" ID)  
**M** = 3/4" Pipe (1.05" OD x .82" ID)  
**N** = 1" Pipe (1.31" OD x 1.05" ID)  
**R** = 1-5/8" OD x 7/8" ID (Cast Iron Only)  
**S** = 2-1/16" OD (Silicon Carbide Only)  
**X** = Other (Specify)

#### "L1" Dimension BOX 6

**Whole inches 12 to 96**  
(in 6-inch increments)  
Silicon Carbide and Cast Iron are available in limited lengths.

#### Sheath Material BOX 3

**1** = Carbon Steel (Black Pipe)  
**2** = 304 SS  
**3** = 316 SS  
**4** = 446 SS  
**5** = Cast Iron (1-5/8" OD x 7/8" ID Only)  
**6** = Alloy 601  
**7** = Silicon Carbide (2-1/16" OD Only)  
**X** = Other (Specify)

#### "L2" Dimension BOX 7

**Whole inches 12 to 96** (in 6-inch increments)

#### Connection Head BOX 8

**A** = Standard Size Aluminum  
**H** = Standard Cast Iron  
**S** = Stainless Steel  
**Note:** All have 1/2" conduit connection (3/4" available).  
For overall dimensions see pages 14-98 through 14-100.

#### Calibration Code BOX 4

**J** = Type J  
**K** = Type K  
**X** = Other (Specify)

#### Special Requirements BOX 9

**X** = Specify  
**0** = None

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**(800) 323-6859 • Email: [sales@tempco.com](mailto:sales@tempco.com)**