Industrial Thermocouple Assemblies

Ceramic and Silicon Carbide Protection Tube Thermocouple Assemblies

Design Features
- Ceramic Insulator to Insulate Wires
- Choice of Alumina 3450°F (1900°C), Mullite 3100°F (1700°C), Hexoloy SA (sintered silicon carbide) 3000°F (1650°C) or Silicon Carbide (carbon bonded) 2300°F (1260°C)

With or Without Threaded Process Mounting Bushing
- Available with Double Protection Tube

Style TCS – 7
Without Threaded Process Connection

Style TCS – 8
With Threaded Process Connection

Ordering Code:

Style
- Box 1
  - 7 = Plain
  - 8 = w/Pipe Thread Process Connection

Sheath Material
- Box 2
  - A = Alumina
  - H = Hexoloy SA (sintered silicon carbide)
  - M = Mullite
  - S = Silicon Carbide (carbon bonded)
  - X = Other (Specify)

Tube & Fitting Size
- Box 3
  (Style TCS – 7 has no process pipe thread)
  - 1 = 3/8" OD (1/4" ID) — 1/2" NPT Thread for Style TCS-8 (available in Alumina, Mullite or Hexoloy SA only)
  - 2 = 5/8" OD (3/8" ID) — 1/2" NPT Thread for Style TCS-8 (available in Hexoloy SA only)
  - 3 = 11/16" OD (7/16" ID) — 3/4" NPT Thread for Style TCS-8 (available in Alumina or Mullite only)
  - 4 = 3/4" OD (1/2" ID) — 3/4" NPT Thread for Style TCS-8 (available in Hexoloy SA only)
  - 5 = 2-1/16" OD (Style TCS-7) (available in carbon bonded silicone carbide only)
  - X = Other (Specify)

Calibration Code
- Box 4
  - J = Type J
  - K = Type K
  - S = Type S
  - R = Type R
  - B = Type B

Wire Gauge
- Box 5
  - A = 24 ga. (Type S, R and B)
  - B = 20 ga.
  - C = 14 ga
  - D = 8 ga.
  - X = Other (Specify)

“L” Dimension
- Box 6
  - Whole inches 12 to 48 in 6-inch increments
  - For lengths over 48 in. consult TEMPCO.

Threaded Bushing Material
- Box 7
  - S = Stainless Steel
  - B = Brass
  - Enter 0 for TCS-7

Protection Tube
- Box 8
  - 1 = Single Protection Tube (Std.)
  - 2 = Double Protection Tube

Connection Head
- Box 9
  - 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.

Special Requirements
- Box 10
  - 0 = None
  - X = Specify

Ordering Information
Thermocouples are offered with the options listed in the worksheet. 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.

Warning:
Cancer and Reproductive Harm - www.P65Warnings.ca.gov

View Product Inventory @ www.tempco.com