# **Configure-To-Order**





## **MODEL 210M**

# DIRECT IMMERSION THERMOCOUPLE PROBE

- Variety of Configurations
- Single and Dual Junctions
- Stainless Steel Case
- Oil Resistant
- Pressure Resistant

The Direct Immersion RTD Probe—Twin Threaded Fitting is constructed with a stainless steel sheath and a welded connection. The welded connection is typically a 1/2" x 1/2" NPT, 1/2" x 3/4" NPT or 3/4" x 3/4" NPT connection. The connection is dual threaded for use with a connection head. The sensors are available with single or dual junctions. These sensors are ideal for the process industry where immersion in the application is essential.

#### **Features**

- Sheath Styles:
  - » Stainless Steel
- Joint Types, Single and Dual:
  - » J, K, T, E
  - » Grounded or Ungrounded
- Sheath Diameters:
  - » 0.125", 0.188", 0.250"

#### **Applications**

- Process
- Aerospace
- Defense
- Hot Melt

#### **Dimensions**



### **Performance Specifications**

Temperature Range: -50 to 250°C (-58 to 482°F)

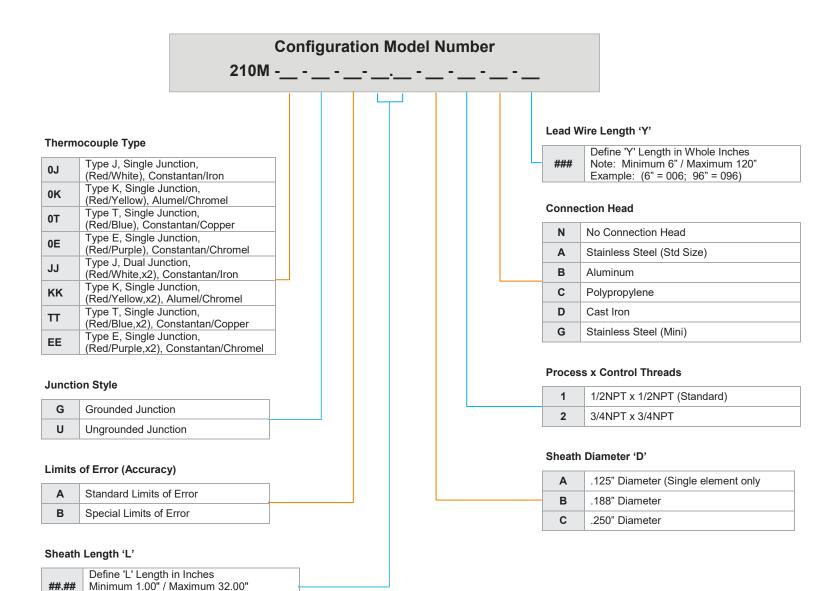
Pressure Rating: 1,500 psi

Insulation Resistance: 1,000 megohms @ 500 V, leads to case

**Vibration:** Withstands 5 to 500 Hz at 3 g-level peak for 3 hours. Per ASTM E 644, Sec. 10.

**Shock:** Withstands 50 g-level peak sine wave shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

Thermocouple Temperature Accuracy Specifications:			
Type	Temp Range	Standard Limits of Error	Special Limits of Error
Т	-200 to 0°C	±1°C or 1.5%	Not ASTM Defined
	0 to 350°C	±1°C or 0.75%	±0.5°C or 0.4%
J	0 to 750°C	±2.2°C or 0.75%	±1.1°C or 0.4%
Е	-200 to 0°C	±1.7°C or 1%	Not ASTM Defined
	0 to 900°C	±1.7°C or 0.5%	±1°C or 0.4%
K	-200 to 0°C	±2.2°C or 2%	Not ASTM Defined
	0 to 1,250°C	±2.2°C or 0.75%	±1.1°C or 0.4%



Example: (12.00 = 12.00"; 28.25 = 28.25")

Connectivity