

## APPLICATIONS

- Process temperature measurements for liquefied natural gas systems, and power generation systems.
- Exhaust gas temperature measurements for hazardous environments.
- Reactor measurements in petrochemical

## SPECIAL FEATURES

The FTIsensors TC200 and TC220 temperature sensor assemblies provide accurate temperature measurements for applications that are located in hazardous environments. Each temperature sensor assembly consists of a spring loaded temperature sensor, magnesium oxide, MgO, insulated insert, connection head and lag extension. The assembly may also include an optional terminal block for wiring and/or transmitters.



## SPECIFICATIONS

### Insert Stem Diameter:

3 mm, 4.5 mm, 6 mm, 8mm

### Stem Length:

Minimum: 0.05 m/2 in.

Maximum: 100 m/3937 in.

### Sensor Type & Measuring Range:

#### Thermocouples

Type J -40 to +750°C

Type E -200 to +800°C

Type K -200 to +1100°C

Type N -200 to +1100°C

### Wiring Configuration

2 wire

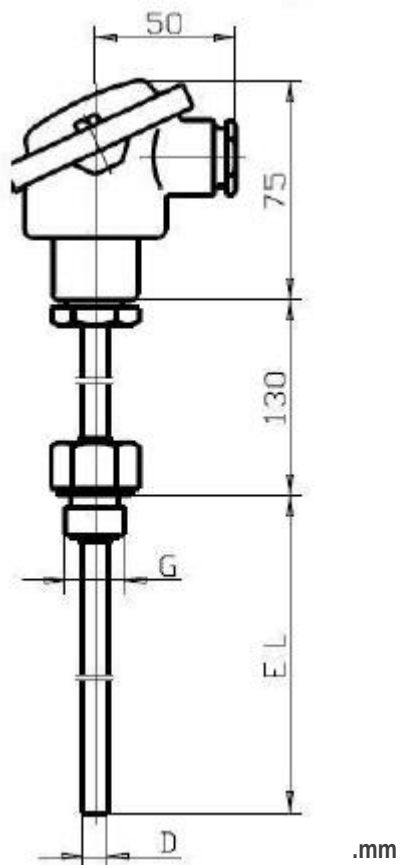
4 wire

### Thermocouples (IEC 60584-2)

	Type J	Type K	Type T	Type E	Type N
Class 1	$\pm 1.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$	$\pm 1.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$	$\pm 0.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$	$\pm 1.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$	$\pm 1.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$
Class 2	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0075^{\circ}\text{t}^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0075^{\circ}\text{t}^{(1)}$	$\pm 1.0^{\circ}\text{C}$ or $\pm 0.0075^{\circ}\text{t}^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0075^{\circ}\text{t}^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$
Class 3	N/A	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0040^{\circ}\text{t}^{(1)}$	$\pm 1.0^{\circ}\text{C}$ or $\pm 0.0150^{\circ}\text{t}^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0150^{\circ}\text{t}^{(1)}$	$\pm 2.5^{\circ}\text{C}$ or $\pm 0.0150^{\circ}\text{t}^{(1)}$

(1) Absolute temperature in °C

## Dimension Drawing



D = Stem Diameter

EL = Nominal Length