

**Description & Features:**

- High accuracy platinum element (Pt100)
- Light weight aluminum connection enclosure
- 2 wire 4-20mA output signal standard
- 316 SS sheath material
- IP54 or ATEX rated enclosure available
- Multi-point and surface mount sensors available
- Available with or without 316 SS thermowells
- 5 year warranty

**Applications:**

- Refineries, petrochemical plants, gas-to-liquid (GTL) processes, storage tanks, power plants, paper production plants, kilns, food & beverage, etc..

Note: Thermowell optional

| Specifications     |                                                              |
|--------------------|--------------------------------------------------------------|
| Head               | Aluminum (standard) or stainless steel                       |
| Element            | Platinum 100 Ohm Class A as per IEC 751                      |
| Output Signal      | 2-wire 4-20mA (standard), also available without transmitter |
| Accuracy           | ±0.15°C at 0°C                                               |
| Temperature Range  | -328°F to 1,022°F (-200°C to 550°C)                          |
| Extension Material | Galvanized carbon steel or 316 SS                            |
| Sheath Material    | 316 SS                                                       |
| Pressure Rating    | 7,000 psi (48,263 kPa) maximum                               |
| Process Connection | 1/2" NPTM (3/4" NPTM with well)                              |
| Conduit Connection | 1/2" NPTF                                                    |
| Enclosure Rating   | IP54 or ATEX ia                                              |

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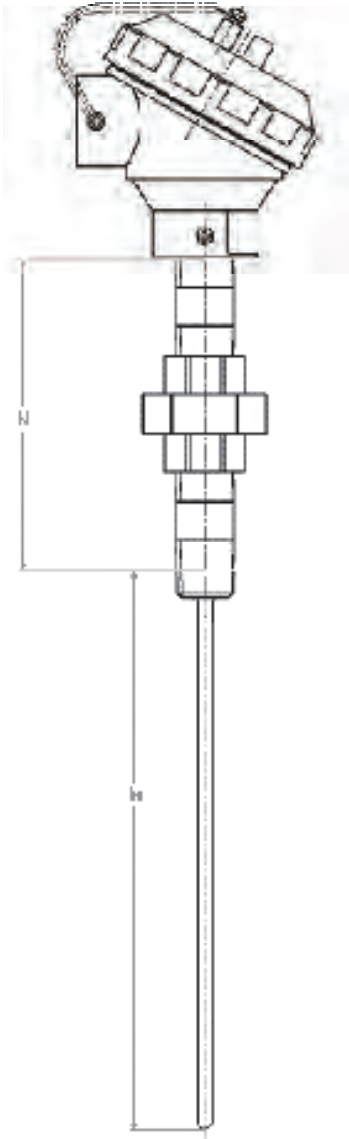
**Order Codes**

| Sensor Length | Extension Material      | IP54 Enclosure | ATEX ia Enclosure |
|---------------|-------------------------|----------------|-------------------|
| 4" (100mm)    | Galvanized Carbon Steel | TER11100       | TER11100XPS2      |
| 8" (200mm)    |                         | TER11200       | TER11200XPS2      |
| 12" (300mm)   |                         | TER11300       | TER11300XPS2      |
| 16" (400mm)   |                         | TER11400       | TER11400XPS2      |
| 4" (100mm)    | Stainless Steel         | TER12100       | TER12100XPS2      |
| 8" (200mm)    |                         | TER12200       | TER12200XPS2      |
| 12" (300mm)   |                         | TER12300       | TER12300XPS2      |
| 16" (400mm)   |                         | TER12400       | TER12400XPS2      |

Other materials, sensor lengths and element types available upon request.  
Multi-point and surface mount sensors available upon request.

**Option suffix:**

TBR = 316 SS threaded thermowell  
TWF = 316 SS flanged thermowell  
TWW = 316 SS weld-in thermowell



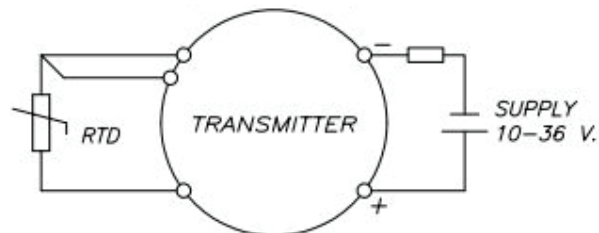
### Temperature Range Codes

| °F only          | Code | °C only        | Code |
|------------------|------|----------------|------|
| -40°F to 120°F   | B14  | -80°C to 50°C  | B26  |
| -40°F to 160°F   | B15  | -50°C to 50°C  | B27  |
| 0°F to 140°F     | B16  | 0°C to 50°C    | B28  |
| 0°F to 200°F     | B17  | -50°C to 100°C | B29  |
| 20°F to 240°F    | B18  | 0°C to 100°C   | B30  |
| 0°F to 250°F     | B19  | -20°C to 120°C | B31  |
| 50°F to 300°F    | B20  | 0°C to 150°C   | B32  |
| 50°F to 400°F    | B21  | 0°C to 200°C   | B33  |
| 50°F to 550°F    | B22  | 0°C to 300°C   | B34  |
| 150°F to 750°F   | B23  | 0°C to 450°C   | B35  |
| 0°F to 800°F     | B24  | 100°C to 550°C | B36  |
| 200°F to 1,000°F | B25  | -              | -    |

Other temperature ranges available upon request.

| Sensor Length | N            | Im          |
|---------------|--------------|-------------|
| 4" (100mm)    | 6.3" (160mm) | 4" (100mm)  |
| 8" (200mm)    |              | 8" (200mm)  |
| 12" (300mm)   |              | 12" (300mm) |
| 16" (400mm)   |              | 16" (400mm) |

### Wiring



INPUT : Pt100 RESISTANCE VALUE AND  
TOLERANCES AS PER IEC.751 CLASS B  
RANGE : 0/150 °C  
OUTPUT 4-20 mA