



Note: Thermowell optional

### 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
- 1 year warranty

### Applications:

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

### Specifications

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

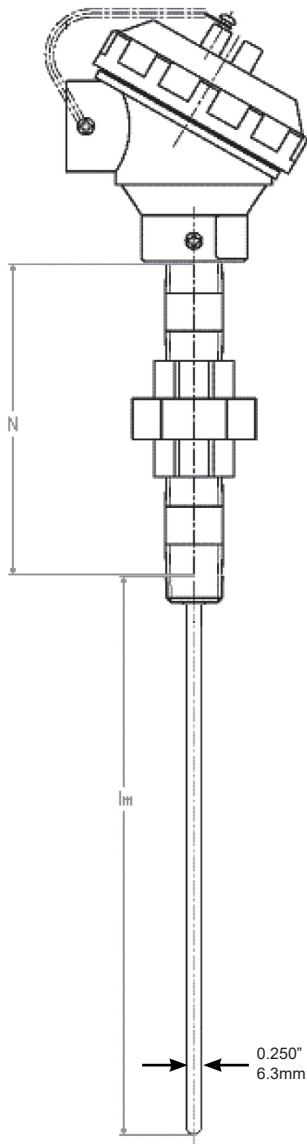
### Order Codes

Sensor Length	Extension Material	IP54 Enclosure	ATEX ia Enclosure
100mm	Galvanized Carbon Steel	TER11100	TER11100XPS2
200mm		TER11200	TER11200XPS2
300mm		TER11300	TER11300XPS2
400mm		TER11400	TER11400XPS2
100mm	Stainless Steel	TER12100	TER12100XPS2
200mm		TER12200	TER12200XPS2
300mm		TER12300	TER12300XPS2
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



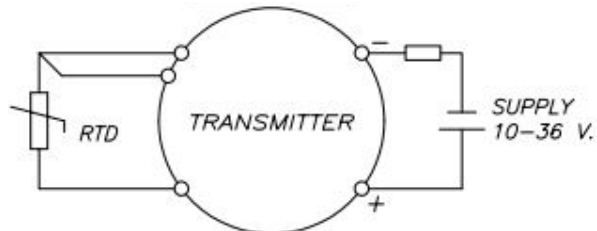
### Temperature Range Codes

°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