



PRODUCT SPECIFICATIONS  
**RTD-100-S**  
 TEMPERATURE SENSOR

**APPLICATION**

**Electric Heat Tracing Control**

The RTD-100-S is designed for use as control input for freeze protection and temperature maintenance applications requiring pipewall or tankwall temperature sensing.

A cast-aluminum NEMA 4X enclosure and terminal block allows ease of wiring into a single unit that can be installed directly onto a heat traced pipe. The RTD-100-S housing and mounting pad are stainless steel. Mounting pad is slotted to accommodate banding straps.

The RTD-100-S is suitable for use in heat tracing applications where surface temperatures do not exceed 900°F (482°C).

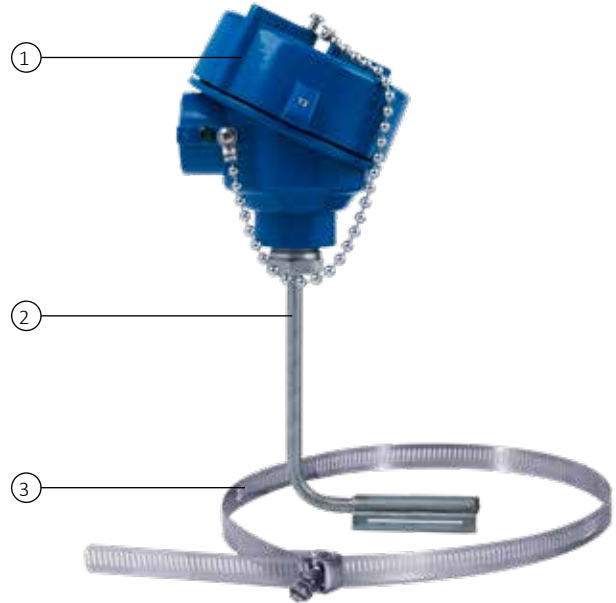
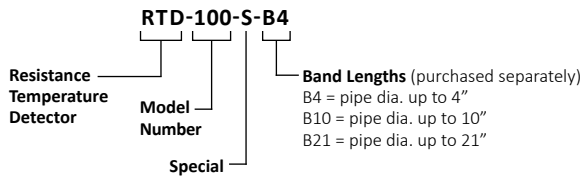
**RATINGS**

|                                 |                           |
|---------------------------------|---------------------------|
| Electrical connection .....     | tension clamp terminals   |
| Enclosure rating .....          | NEMA 4X                   |
| Enclosure hub size .....        | 3/4" NPT female hub       |
| RTD leads .....                 | 22 AWG fiberglass         |
| RTD type.....                   | 3-wire platinum thin film |
| RTD resistance.....             | 100 ohms at 32°F (0°C)    |
| RTD tolerance                   | IEC 60751 Class B         |
| Temperature coefficient .....   | .00385 Ohms/Ohms- °C      |
| Maximum sensor temperature..... | 900°F (482°C)             |
| Sensor housing material .....   | 316 stainless steel       |

**Note**

1. For additional options or enclosure materials contact Thermon.

**PRODUCT REFERENCE LEGEND**



**CONSTRUCTION**

- 1 Junction Box With Terminal Strip
- 2 RTD Housing
- 3 Pipe Strap (purchased separately).
  - B4 = pipe dia. up to 4"
  - B10 = pipe dia. up to 10"
  - B21 = pipe dia. up to 21"

**CERTIFICATIONS/APPROVALS**



**Canadian Standards Association**

The RTD-100-S is CSA certified for use in North America.

**Hazardous (Classified) Locations**

- Class I, Groups B, C and D
- Class II, Groups E, F and G
- Class III