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).
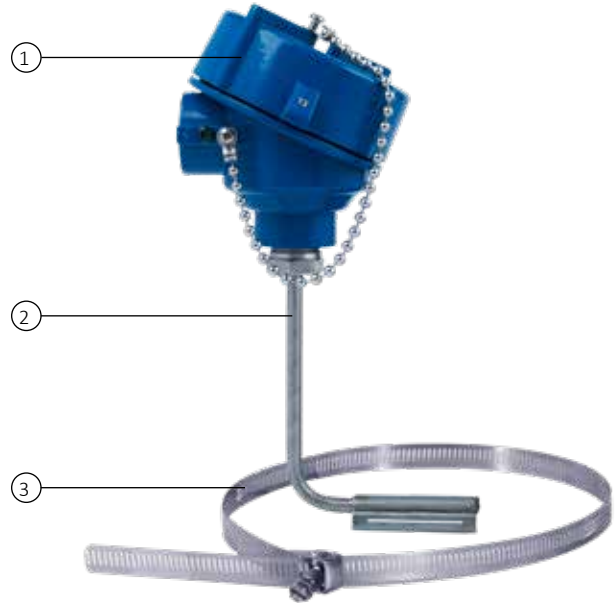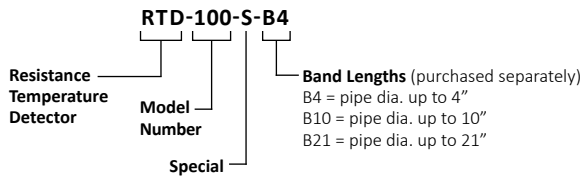
RATINGS
Electrical connection ....tension clamp terminals
Enclosure rating ....NEMA 4X
Enclosure hub size ....3/4" NPT female hub
RTD leads .... 22 AWG fiberglass
RTD type...3-wire platinum thin film
RTD resistance...................................... 100 ohms at 32°F (0°C)
RTD tolerance
    IEC 60751 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

RTD-100-S-B4

Resistance
Temperature
Detector

Model
Number

Special

Band Lengths (purchased separately)
B4 = pipe dia. up to 4"
B10 = pipe dia. up to 10"
B21 = pipe dia. up to 21"

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