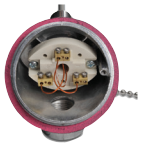
ProSense® RTD Heat Trace Probes with Connection Head

RTD1-HT34-01



Open head

Overview

Heat Trace RTD's are used to measure the surface temperature of process pipe that is carrying products whose temperatures must be controlled to prevent freeze-up, or to maintain a viscosity level so that the inner medium will flow.

- Probe
  - 100 ohm platinum RTD 3-wire element
  - Class A accuracy
  - 1/4" diameter, 316 SS sealed sheath to protect against harsh environments
  - 3" hot leg with 1"x2" weld pad for mounting to pipe surface
  - Mounting weld pad is flexible enough to be formed
  - around nominal pipe sizes from 1" to 12"
  - 4" cold leg allows for electrical connections outside of pipe insulation
- Connection Head
  - Cast aluminum NEMA 4X, IP66 screw cover head with captive gasket
  - One turn cover removal & installation eliminates cross threading and saves time
  - 3/4" NPT conduit opening with internal stop to prevent overtightening and installation damage
  - Gripping ribs on cover edge
  - Stainless steel cover chain
- Wiring
  - Brass terminals with stainless steel screws eliminate the need to wrap connections around screws
  - Elevated terminal block for easy wire termination
- Made in the USA

RTD Heat Trace Probe with Connection Head

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Probe Length	Temperature Sensing Range	Mounting
RTD1-HT34-01	1	1.44	$54k5:	PT 100, 3-wire	3" Hot Leg / 4" Cold Leg	-40 to 482°C (-40 to 900°F)	1" X 2" X R3/4" Weld Pad, 304 SS*

** Mounting pad is flexible enough to be formed around nominal pipe sizes from 1" to 12"*

Technical Specifications

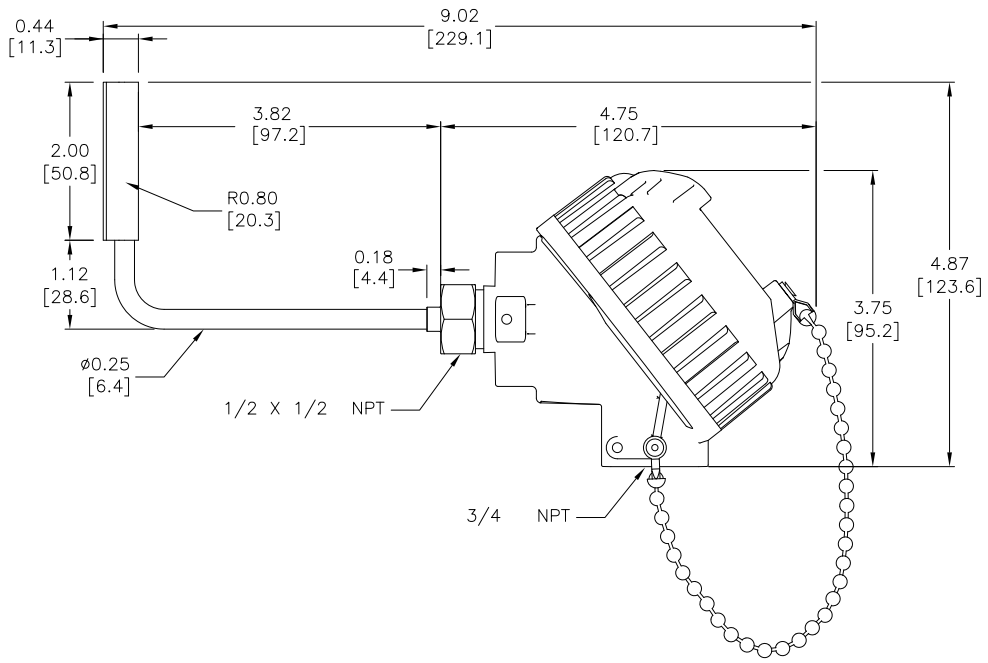
Sensing Element	Single 100Ω platinum (Pt 100), 3-wire; TCR = 0.00385 Ω/Ω/°C
Initial Accuracy	Class A ±[0.15 +0.002 |t|] °C
Probe	ø1/4", 316 stainless steel sheath, single RTD
Response Time	7 seconds, 63% of a 25 to 77°C step change (ASTM E1137)
Wiring	Connection head: Ceramic terminal base with brass terminals and stainless steel screws (Recommended tightening torque 3-4 lb-in)

Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

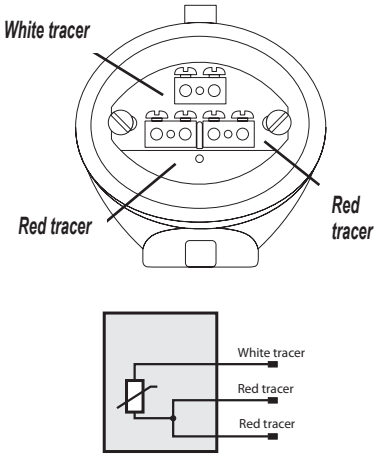
ProSense® RTD Heat Trace Probes with Connection Head

Dimensions

inches [mm]



Wiring Information



- Ignore polarity marks on terminal base
- Recommended screw terminal tightening torque 3-4 lb-in