

Sanitary RTD Probes

Overview

Install directly into process lines for fast response. Cases, made of polished 316 stainless steel, are free of cracks and crevices that might shelter bacteria. External cables will withstand wash-down; optional stainless steel armor prevents abrasion wear.

Tri-clamp® caps are standard. Contact Minco for other styles. Note that clamp and gasket are not part of the assembly. Get more information on page 6-4.

Specifications

Sensing element: Platinum RTD, 100 Ω ±0.1% at 0°C, TCR = 0.00385 Ω/Ω/°C (Meets EN60751, Class B).

Temperature range:

Probe: -100 to 200°C (-148 to 392°F).
External leadwires: -100 to 121°C (-148 to 250°F).

Material: 316 stainless steel.

Finish:

Standard: #4 finish per 3-A standard 74-02, 32 microinches max. Pharmaceutical (optional): Polished to mirror finish and passivated. 10 microinches typical.

Pressure rating: 500 psi (34.5 bar).

Leadwires: AWG 22, polyimide insulation; optional stainless steel armor. Polyolefin shrink tubing wrap standard over either option.

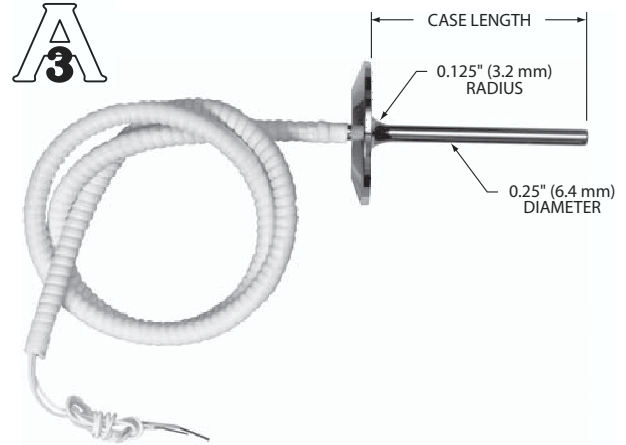
Time constant: 2 seconds.

Self-heating: 50 mW/°C typical in moving water.

Insulation resistance:

Single element probes: 1000 megohms minimum at 500 VDC, leads to case.

Dual element probes: 100 megohms minimum at 100 VDC, between elements and leads to case.



Specification and order options

S5020PD	Model number: S5020PD: Single element S5022PD: Dual element
Z	Number of leads per sensing element: Y = 2 leads Z = 3 leads
30	Case length in 0.1" increments: Standard lengths: 30 = 3.0" 40 = 4.0" 50 = 5.0"
A	Lead covering: T = Tubing A = Armor
60	Lead length in inches
TC	Sanitary cap style: TC = Tri-clamp®
20	Nominal diameter: 10 = 1.0" 15 = 1.5" 20 = 2.0"
P	Case finish: S = Standard finish P = Pharmaceutical finish
S5020PDZ30A60TC20P = Sample part number	

Specify and order products at:
www.minco.com/sensors_config

Specifications subject to change