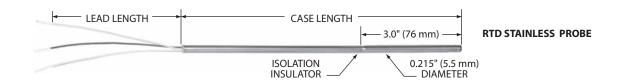
Electrically Isolated RTDs



Overview

- Electrically isolated sensing tip for "hot" bearings
- Accurate sensing to 260°C (500°F)
- Copper alloy tip for fast time response and increased tip sensitivity

Specifications

Dielectric strength of isolation insulator: 1000 volts RMS at 60 Hz for 30 seconds, between case sections, 1 mA max. leakage current.

Pressure rating: 30 psi (2.1 bar).

Vibration: Withstands 10 to 2000 Hz at 20 G's minimum per MIL-STD-202, Method 204, Test Condition D.

Shock: Withstands 100 G's minimum sine wave shock of 8 milliseconds duration.

Isolated tip RTDs

RTD sensing element		Model
Platinum (0.00392 TCR)	100 Ω ±0.5% at 0°C	S52PA
Platinum (0.00385 TCR)	100 Ω ±0.1% at 0°C	S852PD
(Meets EN60751, Class		
Platinum (0.00385 TCR)	100 Ω ±0.5% at 0°C	S882PE
Copper (0.00427 TCR)	10 Ω ±0.2% at 25℃	S52CA
Nickel (0.00672 TCR)	120 Ω ±0.5% at 0°C	S52NA

Temperature Range: -50 to 260°C (-58 to 500°F).

Case: Stainless steel with copper alloy tip. Minimum case length: 4.0" (101.6 mm).

Maximum case length: 48" (1220 mm), longer on special order.

Leads: 2, 3, or 4 leadwires, AWG 22, stranded copper with PTFE insulation. For 2-lead RTDs add 0.03 Ω per foot of combined case and lead length to element tolerance.

Time constant: 2 seconds typical in moving water.

Insulation resistance: 1000 megohms min. at 500 VDC, leads to case.

Specification and order options

S52CA	Model number from isolated tip table					
355	Case length: Specify in 0.1" increments (Ex: 355 = 35.5 inches)					
Z	Number of leads: Y = 2 leads Z = 3 leads X = 4 leads (PD only)					
36	Lead length in inches					
S52CA	S52CA355Z36 = Sample part number					

STOCI							
Case Diam.	Sensing Element	Case Material	# of Lead- wires	Lead Length	Lead Covering	Case Length	Stock Part #
0.215" (5.5mm)	PA	Stainless Steel with Copper Alloy Tip		3 36"	PTFE Insulated Leads	18.0"	S52PA180Z36
			3			24.0"	S52PA240Z36
						12.0"	S52PA120Z36
	PD Steel with Copper	Stainless			PTFF	18.0"	S852PD180Z36
		3	36"	Insulated	24.0"	S852PD240Z36	
		Alloy Tip			Leads	12.0"	S852PD120Z36

Note: Available up to 10 pieces or contact Minco Customer Service

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

Specifications subject to change