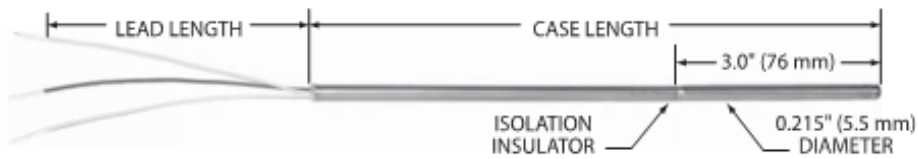


# Electrically Isolated RTDs



RTD STAINLESS PROBE



## 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.

**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.