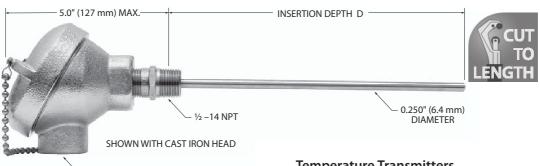
# Tip-sensitive Direct Immersion RTDs



#### Overview

Mount sensors directly in fluid flow for fast response. Probes are rated to 100 psi (6.9 bar). For use in non-corrosive fluids only.

**CONDUIT THREAD** 

- RTD probe for use to 260°C (500°F)
- · Adjustable fluid seal fitting
- · Cast iron, stainless steel, or aluminum connection head

### **Specifications**

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

#### Material:

Probe: Stainless steel with copper alloy tip. Fitting: Stainless steel, silicone rubber O-ring.

Connection head: Cast iron, aluminum, or stainless steel.

Pressure rating: 100 psi (6.9 bar).

Insulation resistance: 100 megohms minimum at

100 VDC, leads to case.

Connection: Terminal block for wires to AWG 14.

**Time constant:** Typical value in moving water:

Single element: 2.0 seconds. Dual element: 5.0 seconds.

## Sensing elements

•		
Element		Code
Platinum (0.00392 TCR)	100 Ω ±0.5% at 0°C	PA
Platinum (0.00385 TCR) (Meets EN60751, Clas	100 <b>Ω</b> ±0.1% at 0°C s B)	PD
Platinum (0.00385 TCR)	100 Ω ±0.5% at 0°C	PE
Copper (0.00427 TCR)	10 <b>Ω</b> ±0.2% at 25°C	CA
(dual)	10 $\Omega$ ±0.5% at 25°C	CC
Nickel (0.00672 TCR)	120 Ω ±0.5% at 0°C	NA

Specify and order products at: www.minco.com/sensors\_config

## **Temperature Transmitters**

Minco's Temptran™ RTD transmitters provide a 4 to 20 mA signal or HART® Protocol that can be sent over long distances with a simple 2-wire system. See Section 5 for complete temperature transmitter specifications.

Special high-accuracy calibration: For high system accuracy, specify transmitters with matched calibration. Calibration data traceable to NIST will also be provided. Get more information on page 5-22.

# Specification and order options

AS5200	Assembly number		
	AS5200: Single element		
	AS5201: Dual element		
PD	Sensing element from table		
100	Insertion depth D:		
	Specify in 0.1" increments (Ex: 100 = 10.0 inches)		
Z	Leads per sensing element:		
	Y = 2 leads Z = 3 leads (required for CA and CC elements)		
	X = 4 leads (PD elements only)		
2	Conduit thread:		
	$1 = \frac{1}{2} - 14 \text{ NPT}$		
	$2 = \frac{3}{4} - 14 \text{ NPT}$		
С	Connection head:		
	C = Cast iron A = Aluminum		
	S = Stainless steel		
To orde	To order sensor assembly, stop here.		
	To order with transmitters (single platinum element only) add:		
211	Temptran™ transmitter model:		
	211 = TT211: Fixed Range (2-lead RTDs)		
	176 = TT176: Fixed Range (3-lead RTDs)		
	520 = TT520: Programmable (2, 3, & 4-lead RTDs)		
	521 = TT521: HART® Programmable (2, 3, & 4-lead RTDs)		
Α	Temperature range codes starting on page 5-20		
	or at www.minco.com/rangecode/		
1	Calibration:		
	1 = Nominal calibration 2 = Match calibrated, 0.75% total system accuracy.		
	For other calibration options, contact Minco		
AS5200	AS5200PD100Z2C211A1 = Sample part number		

Specifications subject to change