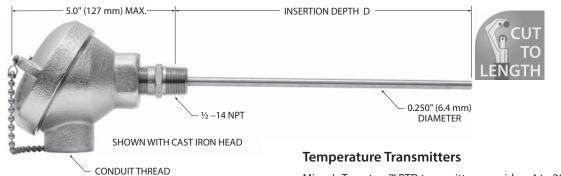
Tip-sensitive Direct Immersion RTDs



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.

- 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		
Platinum (0.00392 TCR)	100 Ω ±0.5% at 0°C	PA
Platinum (0.00385 TCR) 100 Ω ±0.1% at 0°C (Meets EN60751, Class B)		▼PD
Platinum (0.00385 TCR)	100 Ω ±0.5% at 0°C	PE
Copper (0.00427 TCR)	10 Ω ±0.2% at 25°C	CA
(dual)	10 Ω ±0.5% at 25°C	CC
Nickel (0.00672 TCR)	120 Ω ±0.5% at 0°C	NA

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 4 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 4-22.

Specification and order options

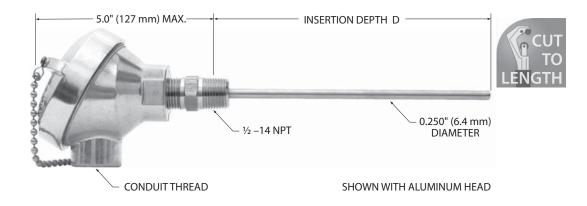
R			
AS5200			
	▼AS5200: Single element		
	▼AS5201: Dual element		
PD	Sensing element from table		
100	Insertion depth D: Specify in 0.1" increments (Ex: 100 = 10.0 inches) ▼:15, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 140, 160, 180, 200, 240, 300, 360		
Z	Leads per sensing element: Y = 2 leads ▼Z = 3 leads (required for CA and CC elements) X = 4 leads (PD elements only)		
1	Conduit thread: $ earrow 1 = \frac{1}{2} - 14 \text{ NPT} $ $ 2 = \frac{3}{4} - 14 \text{ NPT} $		
A	Connection head: C = Cast iron ▼A = Aluminum S = Stainless steel		
	To order sensor assembly, stop here. To order with transmitters (single platinum element only) add		
508	Temptran™ transmitter model:		
	211 = TT211: Fixed Range (2-lead RTDs)		
	508 = TT508: Programmable (2 & 3-lead RTDs)		
	511 = TT511: HART [®] Programmable (2, 3, & 4-lead RTDs)		
A	Temperature range codes starting on page 4-20 or at www.minco.com		
1	Calibration:		
	1 = Nominal calibration		
	2 = Match calibrated, 0.75% total system accuracy. For other calibration options, contact Minco		
AS5200	AS5200PD100Z1A508A1 = Sample part number		

▼= STANDARD OPTIONS

Specifications subject to change



Tip-sensitive Direct Immersion Thermocouples



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.

- Thermocouple 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: 10 megohms minimum at 100 VDC, leads to case. Ungrounded junctions only.

Connection: Terminal block for wires to AWG 14.

Time constant: Typical value in moving water: Grounded junction: 1.5 seconds. Ungrounded junction: 7 seconds.

Temperature Transmitters

Minco's Temptran[™] thermocouple 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 4 for complete temperature transmitter specifications.

Specification and order options

AS5205	Assembly number		
	AS5205: Single junction		
	AS5206: Dual junction		
E	Junction type: E = Chromel-Constantan		
	J = Iron-Constantan		
	K = Chromel-Alumel		
	T = Copper-Constantan		
U	Junction grounding: G = Grounded		
	U = Ungrounded		
215	Insertion depth D:		
215	Specify in 0.1" increments (Ex: 215 = 21.5 inches)		
P			
1	Conduit thread:		
1	$1 = \frac{1}{2} - 14 \text{ NPT}$		
	$2 = \frac{3}{4} - 14$ NPT		
С	Connection head:		
	C = Cast iron		
	A = Aluminum		
	S = Stainless steel		
To order s	sensor assembly, stop here.		
To order v	with transmitter, add:		
509	Temptran™ transmitter model:		
	205 = TT205: Fixed Range, Miniature		
	509 = TT509: Programmable, Hockey Puck		
	511 = TT511: HART [®] Programmable, Hockey Puck		
A	Temperature range codes starting on page 4-20		
	or at www.minco.com		
AS5205EL	AS5205EU215P1C509A = Sample part number		



▼= STANDARD OPTIONS Specifications subject to change

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