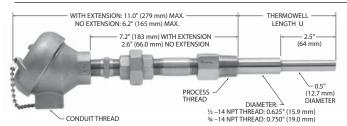
550°C RTDs with Thermowells



SHOWN WITH STAINLESS STEEL HEAD AND UNION/NIPPLE EXTENSION

Overview

Sense temperature in high-pressure fluids and gases. These assemblies are spring-loaded for positive probe contact against the bottom of the thermowell.

- 316 stainless steel thermowell
- RTD probe for use to 550°C (1022°F)
- · Spring-loaded probe
- · Cast iron, stainless steel, or aluminum connection head

Note: For temperatures less than 260°C (500°F), assemblies using tip-sensitive sensors are recommended.

Specifications

Temperature range:

Thermowell and sensor: -100 to 550°C (-148 to 1022°F). Connection head:

Cast iron: 260°C (500°F) max. Aluminum: 316°C (600°F) max. Stainless steel: 121°C (250°F) max.

Material:

Probe: 316 stainless steel.

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

Thermowell: 316 stainless steel. Extension: Stainless steel.

Pressure rating: 7000 psi (483 bar) at 21°C, reducing to 2500 psi (172 bar) at 550°C.

Standard U dimensions: 2.5, 4.5, 6.0, 7.5, 8.0, 10.5, 13.5, 16.5, and 22.5".

Insulation resistance: 10 megohms min. at

100 VDC, leads to case.

Connection: Terminal block for wires to 14 AWG.

Time constant: 23 seconds typical in moving water.

Sensing elements

Element		Code
Platinum (0.00391 TCR)	100 Ω ±0.1% at 0°C	PB
Platinum (0.00385 TCR) (Meets EN60751, Class B	100 Ω ±0.1% at 0°C	PD

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 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

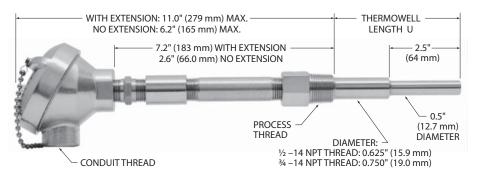
AS5160	Assembly number AS5160
PB	Sensing element from table
105	Thermowell length U: Specify in 0.1" increments (Ex: 105 = 10.5 inches)
Z	Leads per sensing element: Y = 2 leads Z = 3 leads X = 4 leads (PD elements only)
2	Conduit thread: 1 = 1/2 - 14 NPT 2 = 3/4 - 14 NPT
С	Connection head: C = Cast iron A = Aluminum S = Stainless steel
1	Thermowell process thread: $1 = \frac{1}{2} - 14 \text{ NPT}$ $2 = \frac{3}{4} - 14 \text{ NPT}$
U	Extension option: P = Coupling/nipple extension N = No extension U = Union/Nipple extension
To order sensor assembly, stop here. To order with transmitters 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)
А	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
AS5160	PB105Z2C1U508A1 = Sample part number

▼= STANDARD OPTIONS

Specifications subject to change



550°C Thermocouples with Thermowells



SHOWN WITH ALUMINUM HEAD AND COUPLING/NIPPLE EXTENSION

Overview

Sense temperature in high-pressure fluids and gases. These assemblies are spring-loaded for positive probe contact against the bottom of the thermowell.

Note: For temperatures less than 260°C (500°F), assemblies using tip-sensitive sensors are recommended.

- 316 stainless steel thermowell
- Thermocouple probe for use to 550°C (1022°F)
- Spring-loaded probe
- · Cast iron, aluminum or stainless steel connection head

Specifications

Temperature range:

Thermowell and sensor: -100 to 550°C (-148 to 1022°F).

Connection head:

Cast iron: 260°C (500°F) max. Aluminum: 316°C (600°F) max. Stainless steel: 121°C (250°F) max.

Material:

Probe: 316 stainless steel.

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

Thermowell: 316 stainless steel. Extension: Stainless steel.

Pressure rating: 7000 psi (483 bar) at 21°C, reducing to 2500 psi (172 bar) at 550°C.

Standard U dimensions:

2.5, 4.5, 6.0, 7.5, 8.0, 10.5, 13.5, 16.5, and 22.5".

Insulation resistance: 10 megohms min. at 100 VDC, leads to case. Ungrounded junctions only.

Connection: Terminal block for wires to 14 AWG.

Time constant: 60 seconds typical in moving water.

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

Specification and order options			
AS5165	Assembly number: AS5165		
К	Junction type: E = Chromel-Constantan J = Iron-Constantan K = Chromel-Alumel		
U	Junction Grounding: G = Grounded U = Ungrounded		
135	Thermowell length U: Specify in 0.1" increments (Ex: 135 = 13.5 inches)		
Р			
1	Conduit thread: 1 = 1/2 - 14 NPT 2 = 3/4 - 14 NPT		
С	Connection head: C = Cast iron A = Aluminum S = Stainless steel		
1	Thermowell process thread: $1 = \frac{1}{2} - 14 \text{ NPT}$ $2 = \frac{3}{4} - 14 \text{ NPT}$		
U	Extension option: P = Coupling/nipple extension N = No extension U = Union/Nipple extension		
To order sensor assembly, stop here. To order 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		
AS5165KU	ASS165KU135P1C1U509A = Sample part number		

▼= STANDARD OPTIONS

Specifications subject to change

