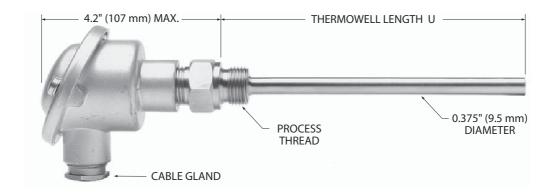
Eurostyle Sensors



Overview

These low priced assemblies come complete with thermowells, spring-loaded probes, and connection heads. They provide accurate sensing and quick response in liquid or air streams. Specify U.S. or metric thread for global compatibility.

- Compact, economical RTD or thermocouple assembly
- · Metric straight thread or U.S. tapered thread
- Tip-sensitive probe for use to 260°C (500°F)
- Optional European Form B connection head to DIN 43729
- Stainless steel thermowell

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.

Specifications

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

Material:

Probe: Stainless steel with copper alloy tip. Connection head: Cast aluminum. Thermowell: 300 series stainless steel.

Pressure rating: 2755 psi (190 bar) at 25° C, reducing to 493 psi (34 bar) at 600 $^{\circ}$ C.

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

Connection: Terminal block for wires to 14 AWG.

Time constant: Typical in moving water:

RTD: 35 seconds.

Thermocouple: 27 seconds.

Sensing elements

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

RTD specification and order options

AS5240		
	AS5240: Single element RTD	
	AS5241: Dual element RTD	
PD	Sensing element from table	
40	TW length U in 0.1" increments	
	[Ex: 40 = 4.0 inches (102 mm)]	
Z	Leads per sensing element: Y = 2 leads	
	Z = 3 leads (required for CA/CC)	
	X = 4 leads (single element only)	
	,	
2	Conduit thread: 1 = 1/2 - 14 NPT	
	$2 = \frac{3}{4} - 14 \text{ NPT}$	
	3 = PG cable gland (Eurostyle only)	
Α	Connection head:	
	A = Standard aluminum head	
	E = Eurostyle aluminum head	
1	TW process thread: $1 = \frac{1}{2} - 14 \text{ NPT}$	
	$2 = \frac{3}{4} - 14 \text{ NPT}$	
	$3 = ISO 228/1 - G_{1/2}$	
To order sensor assembly, stop here.		
	with transmitters, add:	
TT176	Temptran™ model:	
	TT176: Fixed Range (3-lead RTDs)	
	TT520: Programmable (2, 3, & 4-lead RTDs)	
	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	
AS5240PD40Z2A1TT176A1 = Sample part number		

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

Thermocouple specification and order options

- Thermoeouple specimeation and order options			
AS5245	Assembly number:		
	AS5245: Single junction TC		
	AS5246: Dual junction TC		
Е	Junction type:		
	E = Chromel-Constantan		
	J = Iron-Constantan		
	K = Chromel-Alumel		
	T = Copper-Constantan		
G	Junction grounding: G = Grounded		
125	U = Ungrounded		
135	TW length U in 0.1" increments Specify in 0.1" increments		
	[Ex: 135 = 13.5 inches (343 mm)]		
Р	[EX. 133 – 13.3 Menes (3.13 Min)]		
3	Conduit thread:		
3	1 = 1/2 - 14 NPT		
	$2 = \frac{3}{4} - 14 \text{ NPT}$		
	3 = PG cable gland (Eurostyle only)		
Е	Connection head:		
	A = Standard aluminum head		
	E = Eurostyle aluminum head		
3	TW process thread:		
	$1 = \frac{1}{2} - 14 \text{ NPT}$		
	$2 = \frac{3}{4} - 14 \text{ NPT}$		
	$3 = ISO 228/1 - G \frac{1}{2}$		
To order	To order sensor assembly, stop here.		
To order	with transmitters, add:		
TT190	Temptran™ model:		
	190 = TT190: Fixed Range, Hockey Puck		
	520 = TT520: Programmable, Hockey Puck		
	521 = TT521: HART® Programmable, Hockey Puck		
Α	Temperature range codes starting on page 5-20		
or at www.minco.com/rangecode/			
AS5245E	G135P3E3190A = Sample part number		

Specifications subject to change



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