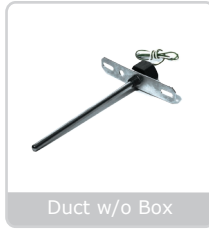
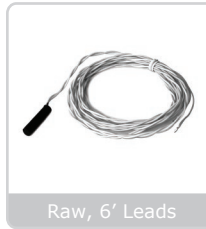




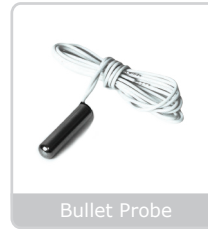
Featured Transmitter Product  
Duct



Duct w/o Box



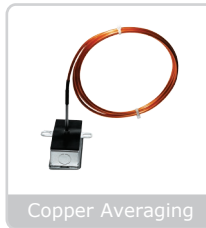
Raw, 6' Leads



Bullet Probe



Immersion w/o Well



Copper Averaging



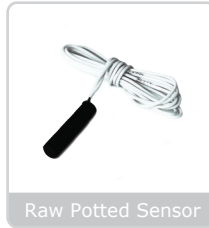
Rigid Averaging



Strap



Outdoor Air



Raw Potted Sensor



Immersion, Two Piece Well



Immersion, Machined Well

# TRANSMITTERS

## General Mounting

ACI offers a comprehensive selection of general mounting configurations for Transmitters (see list above). These sensors provide a predictable and accurate output over the specified temperature range. Each sensor configuration is designed and manufactured for long-term quality and performance. ACI incorporates standard features such as double encapsulation and etched Teflon leads where applicable. The ACI A/TTM Series offers a matched calibration of the sensor & transmitter, which improves the measurement accuracy. An N.I.S.T. certificate is provided with all A/TTM Series devices. Robust, high-end performance in addition to N.I.S.T certification makes this series suitable for applications such as pharmaceutical or scientific laboratories.



**SPECIFICATIONS**

<b>Supply Voltage</b>	8.5 to 32 VDC   249 Ohm Load: +13.5 to 32 VDC   499 Ohm Load: +18.5 to 32 VDC
<b>Output Current</b>	25 mA
<b>Transmitter Transmitter Input</b>	2-wire Platinum 100/1K Ohm Class A RTD
<b>Transmitter Transmitter Output</b>	2-wire, Linear 4 to 20 mA DC Current (standard), 1 to 5 VDC, or 2 to 10 VDC
<b>Calibrated Accuracy</b>	+/-0.2% of full scale for spans <500°F (275°C)   +/-0.5% of full scale for spans >500°F (275°C)
<b>Temperature Effect</b>	+/-0.02% of full scale for spans >100°F (55°C)   +/-0.04% of full scale for spans <100°F (55°C)
<b>Transmitter Operating Temperature</b>	-40 to 185°F (-40 to 85°C)
<b>Transmitter Operating Humidity</b>	0-90% RH non-condensing
<b>Minimum Calibration Span</b>	50°F (28°C)
<b>Operating Temperature Range</b>	Single Point: -58 to 392°F (-50 to 200°C)   Averaging: -50 to 275°F (-45.5 to 134.8°C)
<b>Sensor Outputs</b>	[1]: 1 to 5 VDC   [2]: 2 to 10 VDC   [4]: 4 to 20 mA
<b>Product Dimensions</b>	Please reference pages 5, 6, 7 & 8

**ORDERING**

Select one Series (A), one Configuration (B), one Length (C), one Output (D) & one Enclosure (E). **NOTE:** See Thermowell data sheet for proper well selection for all Immersion related sensors. Enclosure options (E) include Plastic Box (PB), Galvanized Box (GD), NEMA 3R (BB), NEMA 4X (4X), & Euro Housing (EH). The Plastic Box (PB) is rated from 0 to 203°F. Once a Sensor Series (A) has been selected, stay within the same row when choosing a Configuration (B) & Length (C). Choose 1 Output (D). When selecting an Enclosure option (E). Stay in previous row as your B & C selections. ▶ Please specify a temperature span for each transmitter configuration ordered. Three point calibration certifications are standard for all A/TTM part numbers, however, five point calibration certifications can be ordered separately. See (1) below.

**A Sensor Series**

- A/TT100   
  A/TT1K   
  A/TTM100 (Matched Transmitter)   
  A/TTM1K (Matched Transmitter)

**B Configuration**

- D (Duct) ▶
- DO (Duct w/o Box) ▶
- I (Immersion, Two Piece Well) ▶
- IM (Immersion, Machined Well) ▶
- INW (Immersion w/o Well) ▶
- A (Copper Averaging) ▶
- RA (Rigid Averaging) ▶
- S (Strap) ▶
- O (Outdoor Air) ▶
- W (Raw Potted Sensor) ▶
- W-6' (Raw w/6' Leads) ▶
- BP (Bullet Probe) ▶
- BO (Board Only) ▶

**C Length**

- 4"    6"    8"    12"    18" ▶
- 4"    6"    8"    12"    18" ▶
- 2.5"    4"    6" ▶
- 1"    2.5"    4"    6"    12" ▶
- 2.5"    4"    6"    12" ▶
- 8'    12'    24'    50'    80'    100' ▶
- 18"    24"    36" ▶
- (No Length) ▶
- (No Length) ▶
- (No Length) ▶
- (No Length) ▶
- (No Length) ▶
- (No Length) ▶

**D Output**

- 1 (1 to 5 VDC)
- 2 (2 to 10 VDC)
- 4 (4 to 20 mA)

**E Enclosure**

- PB    GD    BB    4X    EH
- (No Enclosure)
- PB    GD    BB    4X    EH
- PB    GD    BB    4X    EH
- PB    GD    BB    4X    EH
- PB    GD    BB    4X    EH
- PB    GD    BB    4X    EH
- PB    GD    BB    4X    EH
- (No Enclosure)
- (No Enclosure)
- (No Enclosure)
- (No Enclosure)

**1 Calibration Option for A/TTM orders (Additional Accessories)**

- (Default) 3 Point Calibration Certification (Points: 20, 50 & 80% of Span)
- NIST TTM CERT-5PT. (Points: 0, 20, 50, 80 & 100% of Span)

**BUILD PART NUMBER**

After completing (A), (B), (C), (D) & (E) from the above table, fill in the "Part Number Table" below. (1) is an additional configuration. An example part number is provided. Please indicate calibration span.

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
EXAMPLE: A/TT1K - D - 6" - 4 - GD					
CALIBRATION SPAN: 30 to 130					CALIBRATION SPAN

	<b>1</b>
EXAMPLE: NIST TTM CERT-5PT.	

The ACI Mars Plastic Duct housing (PB) has been tested to and complies with the requirements specified in the UL 2043 Standard for Fire Test for heat and visible smoke release for discrete products and their accessories installed in air-handling spaces. The Plastic Box has a UL94-HB rating. The NEMA 4X enclosure has a UL94-V2 flammability rating. The Euro Housing enclosure has a UL94-V0 flammability rating. CE exception: Averaging units and any other configuration with leads longer than 3 meters. The Plastic Box has a UL94-HB rating. The NEMA 4X enclosure has a UL94-V2 flammability rating. The Euro Housing enclosure has a UL94-V0 flammability rating.

