



## Product Data

### POTTED TRANSMITTER Potted Transmitters with standard and NIST calibrations

## Product Description

ACI offers additional moisture protection on its transmitter series through a potting, or encapsulation, process. Since epoxy encapsulation literally buries all components and circuitry within the epoxy material, there is no better protection against the environment than with epoxy encapsulation.

ACI's epoxy is thermally conductive, meaning that the material allows the heat from the transmitter to dissipate and disperse more freely than would likely occur in air or with other conformal coatings. The epoxy encapsulation reduces hot-spots by evenly distributing the heat over the entire PCB assembly, thereby allowing the transmitter to perform better.

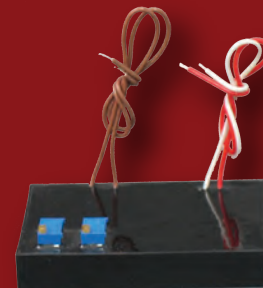
ACI's Potted Transmitters are available in a limited number of configurations and have improved performance characteristics in many key areas. It should be noted that all temperature transmitters are inherently susceptible to temperature drift regardless of these enhancements. Please contact ACI regarding your application to ensure the greatest level of performance.

The ACI POTTED TRANSMITTER Series is covered by ACI's Five (5) Year Limited Warranty, which Limited Warranty is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: [www.workaci.com](http://www.workaci.com).

## Product Specifications

<b>Transmitter 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>Temp. Transmitter Input</b>	2-wire Platinum 100/1K Ohm Class A RTD
<b>Temp. Transmitter Output</b>	2-wire, Linear 4 to 20mA DC Current (Std.) 1 to 5 VDC or 2 to 10 VDC
<b>Calibration Accuracy (linearity, hysteresis, and repeatability)</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 Drift</b>	+/- 0.02% /°F for spans > 100°F (55°C) +/- 0.04% /°F for spans < 100°F (55°C)
<b>Transmitter Operating Temperature</b>	-40 to 185°F (-40 to 85°C)
<b>Minimum and Maximum Spans</b>	50°F (28°C) min / 1000°F (550°C) max

## Temperature



### Attributes:

- Moisture protection from wet environments
- Improved heat dissipation yields increased performance
- RoH's Compliant

### Applications:

- Building Automation Systems
- Light Industrial
- Pharmaceutical
- Humidity Chambers
- Vivariums
- Wash down areas



Made in the USA

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DISPLAYS

TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

AIR QUALITY

ACCESSORIES

# Ordering Information

A/	Sensor Type [ ]	-Span [ ]	-Configuration [ ]	-Length [ ]	-Enclosure [ ]	-Output [ ]	-[POTTED]
	<b>TT100</b> (100 Ohm RTD)	(1) 40 to 90°F	<b>I</b> (Immersion w/ well)	<b>2.5", 4", 6"</b>	<b>BB, 4X</b>	(1) 1 to 5 VDC	
	<b>TT1K</b> (1000 Ohm RTD)	(2) 30 to 100°F	<b>INW</b> (Immersion no well)	<b>2.5", 4", 6"</b>	<b>BB, 4X</b>	(2) 2 to 10 VDC	
		(3) 20 to 120°F	<b>S</b> (Strap)		<b>4X</b>	(4) 4 to 20 mA	
	<b>TTM100</b> (100 Ohm RTD)	(4) 40 to 140°F	<b>O</b> (Outdoor Air)		<b>BB, 4X</b>		
	<b>TTM1K</b> (1000 Ohm RTD)	(5) 40 to 240°F	<b>D</b> (Duct)	<b>4", 8", 6", 12"</b>	<b>BB, 4X</b>		
	<i>Matched Calibration with 3 point NIST certificate</i>	(6) -30 to 130°F	<b>A</b> (Averaging)	<b>12', 24'</b>	<b>BB, 4X</b>		
		(7) 0 to 150°F	<b>RA</b> (Rigid Averaging)	<b>18", 24", 36"</b>	<b>BB, 4X</b>		
		(8) Specify	<b>*LTS</b> (Freezer)	<b>30'</b>	<b>BB, 4X</b>		
			<b>*BO</b> (Board Only)				

For added accuracy, 5 point calibration is also available:

**A/5PT NIST** (5 Point NIST Calibration certificate)

\*BO is not available with Matched Calibration (TTM100/TTM1K configurations)

\*LTS is only available in TT1K and TTM1K configurations

### Enclosure Key

BB = NEMA 3R  
4X = NEMA 4X

Example: A/TT1K-2-I-4"-BB-4-POTTED