



Product Data

A/TT100 Series
A/TT1K Series
A/TTM100 Series
A/TTM1K Series

Temperature Transmitters

Product Description

ACI temperature transmitters are a cost effective solution for all of your temperature measurement needs. The transmitters are accurate, durable, and reliable. In addition, numerous mounting configurations are offered.

ACI produces two temperature transmitters, the A/TT100 for use with a 100 Ohm Platinum RTD and the A/TT1K for use with a 1K Ohm Platinum RTD. The transmitters produce a linear 4-20 mA output carried on a two-wire system. Optional output voltage ranges of (+1-5 or +2-10 VDC) can also be ordered. The transmitter is supplied factory calibrated, and supplied with zero and span potentiometers for field calibration.

To enhance overall performance, the A/TTM Series offers a matched calibration of the sensor and transmitter which improves the measurement accuracy by eliminating the sensor tolerance error. A N.I.S.T. certificate is provided on all A/TTM Series sensors.

These products are covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's web site, which is: www.workaci.com.

Product Specifications

Transmitter Supply Voltage	8.5 to 32 VDC 249 Ohm Load: +13.5 to 32 VDC 499 Ohm Load: +18.5 to 32 VDC
Temp. Transmitter Input	2-wire Platinum 100/1K Ohm Class A RTD
Temp. Transmitter Output	2-wire, Linear 4 to 20mA DC Current (Std.) 1 to 5 VDC or 2 to 10VDC
Calibrated Accuracy (linearity, hysteresis, and repeatability)	+/- 0.2% of full scale for spans < 500°F (275°C) +/- 0.5% of full scale for spans > 500°F (275°C)
Temperature Effect	+/- 0.02% of full scale for spans > 100°F (55°C) +/- 0.04% of full scale for spans < 100°F (55°C)
Transmitter Operating Temperature	-40 to 185°F (-40 to 85°C)
Transmitter Operating Humidity	0 to 90% RH non-condensing
Minimum and Maximum Spans	50°F (28°C) min / 1000°F (550°C) max

Wiring Diagrams available at www.workaci.com

Transmitter



Attributes:

- Reverse Polarity Protected
- Class A RTD included
- Custom calibration ranges are available

Applications:

- Data acquisition
- OEM
- Process Control
- Clean Rooms



Made in the **USA**

Automation Components, Inc.
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TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES

Ordering Information

A/TT100 (100 Ohm RTD)

A/TT1K (1000 Ohm RTD)

A/TTM100 (100 Ohm RTD)

A/TTM1K (1000 Ohm RTD)

Matched Calibration with 3 point NIST certificate

For added accuracy 5 point calibration is also available **A/5PT NIST** (5 Point NIST Calibration certificate)

-Span	-Configuration	-Length	-Output	-Enclosure Type
↑	↑	↑	↑	↑
(1) 40 to 90°F	D (Duct)	4", 8", 12", 18"	(1) 1 to 5VDC	PB, GD, BB, 4X, EH
(2) 30 to 100°F	I (Immersion w/ well)	2.5", 4", 6"	(2) 2 to 10VDC	PB*, GD, BB, 4X, EH
(3) 20 to 120°F	INW (Immersion no well)	2.5", 4", 6"	(4) 4 to 20mA	PB*, GD, BB, 4X, EH
(4) 40 to 140°F	A (Copper Averaging)	8", 12", 24"		PB, GD, BB, 4X, EH
(5) 40 to 240°F		50', 80', 100'		PB, GD, BB, 4X, EH
(6) -30 to 130°F	RA (Rigid Averaging)	18", 24", 36"		
(7) 0 to 150°F	S (Strap)	-----		PB*, GD, 4X
(8) Specify	O (Outdoor Air)	-----		EH, BB, 4X
	W-6' (Raw w/ 6' Leads)			PB, GD, BB, 4X, EH
	SP (Stainless Plate)			

Enclosure Key

PB = Plastic Box
GD = Galvanized Box
BB = NEMA 3R
4X = NEMA 4X
EH = Euro Housing (Weather tight)

Example: A/TT1K-3-D-4"-4-PB

*Please note that the -PB (Plastic Box) is rated to 140° F and may not be suitable for high temperature applications.

Room configurations:

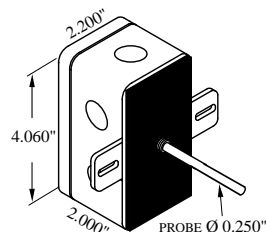
-Span	Configuration	-Output
↑	↑	↑
(1) 40 to 90°F	R2 (Room)	(1) 1 to 5VDC
(2) 30 to 100°F	R2S* (Room w/ Setpoint)	(2) 2 to 10VDC
(3) 20 to 120°F	R2O (Room w/ Override)	(4) 4 to 20mA
(4) 40 to 140°F	R2SO* (Room w/ Setpoint & Override)	
(5) 40 to 240°F		
(6) -30 to 130°F		
(7) 0 to 150°F		
(8) Specify		

Room Sensors with* require setpoint specs (value, indication, and action) and are not listed on your packing slip or invoice.

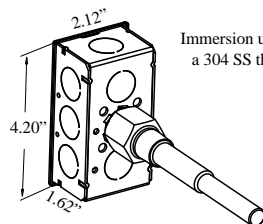
R2= New Aries Enclosure **OR** **R=** Previous Infinity Enclosure (Please contact ACI for display options)

Example: A/TT100-1-R2-4-DF

Standard enclosure defaults:

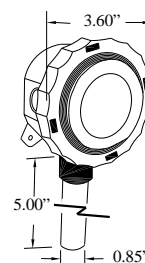


Duct
(Plastic Box)

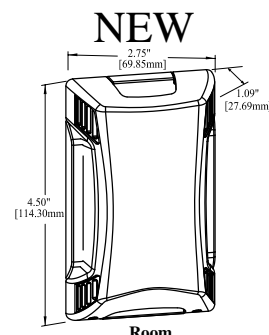


Immersion
(Galvanized Box)

Immersion units include
a 304 SS thermowell



Outdoor Air
(Euro Enclosure)



Room

2305 Pleasant View Road Middleton, WI 53562

PH: (888) 967-5224 www.workaci.com