



Featured Relative Humidity Product

Duct/Euro



Outside Air/Euro



Room (Previous & New)



Stainless Plate

RELATIVE HUMIDITY

Humidity Transmitter

The A/RH Series relative humidity transmitters utilize a capacitive sensing element to deliver a proportional analog output. This series features on board DIP switches which allow the user to select the desired output signal. In addition, field calibration can be performed by using the on board increment and decrement DIP switches. Duct and Outside Air configurations feature conformally coated circuit boards for moisture resistance. These enhancements provide increased flexibility and outstanding long-term performance.





SPECIFICATIONS

RH Supply Voltage (4 to 20 mA)	(250 Ohm Load): 15 to 40 VDC/18 to 28 VAC
RH Supply Voltage (4 to 20 mA)	(500 Ohm Load): 18 to 40 VDC/18 to 28 VAC
RH Supply Voltage (0-5 VDC)	12 to 40 VDC/18 to 28 VAC (4K Load minimum)
RH Supply Voltage (0-10 VDC)	18 to 40 VDC/18 to 28 VAC (4K Load minimum)
Supply Current	Voltage Output: 8 mA maximum Current Output: 24 mA maximum
RH Measurement Range	0-100%
RH Output	2-wire: 4 to 20 mA (Factory Standard) 3-wire: 0-5, 0-10 VDC or 4 to 20 mA
Accuracy @ 77°F (25°C)	+/- 1% over 20% span (between 20 to 90%) +/- 2%, 3%, or 5% from 10 to 95%
Long Term Stability	Less than 2% drift/5 years
Repeatability	0.5% RH
Sensitivity	0.1% RH
Operating Environment (Duct/Outside)	Duct/Outside: 0 to 100 % RH (non-condensing) -40 to 140°F (-40 to 60°C), Conformally Coated Boards
Operating Environment (Room)	Room: 0 to 95% RH (non-condensing) 32 to 122°F (0 to 50°C)
RH Sensor Type	Capacitive
Product Dimensions (Duct/Euro)	Enclosure: (W) 3.60" (D) 2.25" Probe: (L) 7.15"
Product Dimensions (Outside Air)	Cover: (H) 3.61" (W) 4.00" (D) 2.25" Stem: (H) 3.00" (W) 1.13"
Product Dimensions (Room 2)	(H) 4.50" (W) 2.75" (D) 1.12"
Product Dimensions (Room)	(H) 4.51" (W) 2.75" (D) 2.90"
Product Dimensions (Stainless Plate)	Plate: (H) 4.51" (W) 2.76" (D) 0.19" Filter: (L) 1.06"

ORDERING

Select one Series (A). If A/RH1 is selected, you must specify a 20% range. Choose one Configuration (B) and one Output (C). **NOTE:** 4 to 20 mA output is not available for the SP configuration.

A Accuracy			B Configuration			C Output		
<input type="radio"/> A/RH1 (+/-1%) (Specify a 20% Range)	<input type="radio"/> D (Duct/Euro)	<input type="radio"/> ---- (4 to 20 mA) (Field selectable output to 0-5 VDC or 0-10 VDC)	<input type="radio"/> A/RH2 (+/-2%)	<input type="radio"/> O (Outside Air/Euro)	<input type="radio"/> 05 (0 to 5 VDC) (Field selectable output to 0-10 VDC or 4 to 20 mA)	<input type="radio"/> A/RH3 (+/-3%)	<input type="radio"/> SP (Stainless Plate)	<input type="radio"/> 010 (0 to 10 VDC) (Field selectable output to 4 to 20 mA or 0-5 VDC)
<input type="radio"/> A/RH5 (+/-5%)	<input type="radio"/> R2 (Room, New Enclosure)			<input type="radio"/> R (Room, Previous Enclosure)				

BUILD PART NUMBER

After completing (A), (B), & (C) from the above table, fill in the Part Number Table below. An example part number is offered.

A	B	C
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EXAMPLE: A/RH3 - D - 010

The Euro enclosure has a UL94-V0 flammability rating.

