

RH ROOM

Relative Humidity Room, Thermistor

The ACI Relative Humidity with Thermistor Room Series utilizes a thermoset polymer capacitive sensing element with a factory fitted hydrophobic filter to improve its moisture resistance. The sensing elements multilayer construction also provides excellent resistance in applications where dust, dirt, oils and common environmental chemicals are found. The RH room sensors include on board DIP switches which allow the user to select the desired output signal and can be powered by AC or DC power sources. Single point field calibration can be performed by using the increment and decrement calibration DIP switches to adjust your curve up or down in +/- 0.5% increments with each toggle of the corresponding switches. These enhancements provide increased flexibility and outstanding long-term reliability without the need to replace the sensors in the field. There are two enclosure options in this series which should satisfy most commercial decors. Both enclosures

feature four-way airflow to minimize self-heating. Three point NIST Calibration Certificates are available.

Applications: Humidification, Dehumidification, Monitoring Indoor Space Humidity, Clean Rooms, Hospitals, Process Control, Laboratories, Museums, Schools, Office Buildings, Data Centers, ESD (Anti-Static) Control

The ACI RH Thermistors Room is covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, workaci.com.

4-20 mA: 250 Ohm Load: 15 - 40 VDC / 18 - 28 VAC 500 Ohm Load: 18 - 40 VDC / 18 - 28 VAC
0-5 VDC: 12 - 40 VDC / 18 - 28 VAC 0-10 VDC: 18 - 40 VDC / 18 - 28 VAC
Voltage Output: 8 mA maximum (0.32 VA) Current Output: 24 mA maximum (0.83 VA)
4-20 mA: 700 Ohms maximum 0-5 VDC or 0-10 VDC: 4K Ohms Minimum
2-wire: 4 - 20 mA (Factory Default) 3-wire: 0-5 or 0-10 VDC and 4 - 20 mA (Field Selectable)
+/- 1% over 20% RH Range between 20 to 90% +/- 2%, or 3% from 10 to 95%
0-100%
0 to 95% RH, non-condensing
35 to 122°F (1.5 to 60°C)
-40 to 149°F (-40 to 65°C)
Less than 2% drift / 5 years 0.5% RH 0.1% RH
20 Seconds Typical
Capacitive with Hydrophobic Filter
30 Minutes (Recommended time before doing accuracy verification)
Screw Terminal Blocks (Polarity Sensitive) 16 (1.31 mm²) to 26 AWG (0.129 mm²)
4.43 to 5.31 lb-in (0.5 to 0.6 Nm)
Default Test Points: 3 Points (20%, 50% & 80%)
1% NIST Test Points: 5 Points within selected 20% Range (ie. 30%-50% are 30, 35, 40, 45 & 50)
RHx-1.8K Series: 1.8KΩ (Red/Yellow) RHx-10KS Series: 10KΩ (White/Blue)
RHx-3K Series: 3KΩ (White/Brown) RHx-10K-E1 Series: 10KΩ (Gray/Orange)
RHx-AN Series (Type III): 10ΚΩ (White/White) RHx-20K Series: 20ΚΩ (Brown/Blue)
RHx-AN-BC Series: 5.238KΩ (White/Yellow) RHx-50K Series: 50KΩ (Brown/Yellow)
RHx-CP Series (Type II): 10KΩ (White/Green) RHx-100KS Series: 100KΩ (Black/Yellow)
RHx-CSI Series: 10KΩ (Green/Yellow)
+/- 0.36°F (0.2°C) except 10K-E1 Series: +/- 0.54°F (0.3°C)
1.8K Series: +/- 0.9°F (0.5°C) @ 77°F (25°C) & +/- 1.8°F (1.0°C) from 32 to 158°F (0 to 70°C)
3 mW/°C except 1.8K Series: 1 mW/°C; 10K-E1 Series: 2 mW/°C
10 Seconds nominal
Screw Terminal Blocks 16 (1.31 mm²) to 26 AWG (0.129 mm²)
4.43 to 5.31 lb-in (0.5 to 0.6 Nm)
"-R2" Enclosure: ABS (White) "-R" Enclosure: ABS (Beige)
UL94-HB
"-R2" Enclosure: 4.50" (114.3 mm) x 2.75" (69.85 mm) x 1.12" (28.45 mm)
"-R" Enclosure: 4.50" (114.3 mm) x 2.75" (69.85 mm) x 1.12" (28.45 mm)
A/RHx-xx-R2 Series: 0.17 lbs. (0.077 kg) A/RHx-xx-R Series: 0.17 lbs. (0.077 kg)

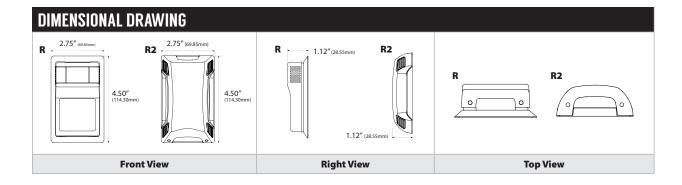
Call: 1-888-967-5224 | Web: www.workaci.com

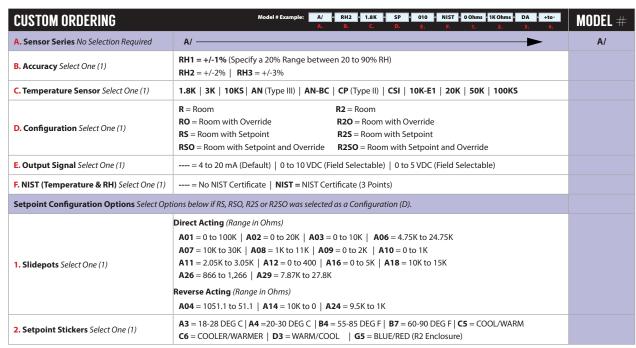












Note*: Outputs are field selectable between 4-20 mA, 0-5 VDC & 0-10 VDC

ACCESSORIES ORDERING		Model # Example: A/MOUNTING PLATEBEIGER -OR- 106821
Model #	Item #	Description
A/MOUNTING PLATE BEIGE R	106821	Wall Mounting Back Plate, Plastic, Beige ("R")
A/MOUNTING PLATE WHITE R2	143369	Wall Mounting Back Plate, Plastic, White ("R2")
LOCKING COVER	107370	Clear Thermostat Guard, Locking Cover, Low Profile
A/ROOM-FOAM-PAD	125690	1/8" Foam Insulation Pad with Adhesive (3" x 2", Black)





