

Humidity + Temperature Transmitters: BM-RHT-2AS

Application Areas

- Building Environmental Control Systems
- Commercial Construction/Retrofitting
- Hospitals and Medical Centers
- Walk-in Freezers, Supermarkets
- Greenhouses, Food Storage, Incubators, Swimming Pools...



DESCRIPTION: (Humidity transmitter with temperature transmitter)

The BM-RHT-2AS transmitter is specifically designed for use in applications where both a temperature and humidity signal are required. The BM-RHT-2AS Wall Mount comes standard in the Designer Space enclosure designed for ease of installation and is available as a 12~24 VDC loop powered device with both temperature and humidity signal outputs.

SPECIFICATION: (Humidity Transmitter)

System Accuracy:	± 3%RH 15% to 90% RH(±3~5%RH in other range)
Compensated Temp.:	-20°C to 60°C, or -20°C to 80°C
Sensor Construction:	Capacitive humidity sensor HS11
Repeatability:	±0.5% RH
Hysteresis:	±1% of span max
Linearity:	±0.5% RH typical
Response Time:	6 seconds @ 25°C
Stability:	±2% RH typical at 50% RH in 5 yrs.
Output Signal Types:	4 ~ 20mA, 0 ~ 5 VDC (Jumper selectable) , RS485
	Note: all output signals are scaled 0-100%RH
Power Supply:	12 ~ 30 VDC at unit (Loop Powered)
Wiring Connections:	Screw Terminals (14 to 22 AWG)

SPECIFICATION: (Temperature Transmitter)

Accuracy:	± 0.5°C (-20 ~ 60°C, -20 ~ 80°C)
Supply Voltage:	12 ~ 30 VDC at unit (Loop Powered)
Output:	4-20mA, 0-5VDC (Jumper selectable), RS485
Operating temp:	-20 ~ 60°C
OSA operating temp:	-20 ~ 80°C
Temperature sensor:	NTC

Installation

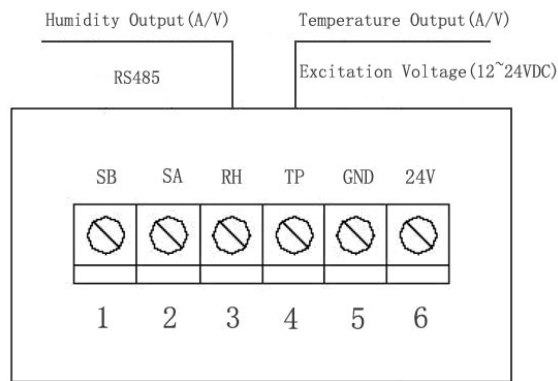
1. Install in stable environments, avoiding direct light, keeping away from equipments as window, conditioner, heating and so on, avoiding directly facing to windows and doors.
2. Installation height is people's sitting height or the height of equipments which mainly have demands for environmental conditions

Outline dimension and installation diagram

Main Box Size: 90×90×30mm

Probe Size: Φ20x140mm(the longer probe can be selected, such as 220mm, 300mm)

Electronics connecting



Note

1. Read the guide carefully before use to insure correct connection: any incorrect connection may cause irreversible damages to the transmitter.
2. Avoid installation or application in diathermanous and may result in difference in temperature of the areas to be tested, or will cause measuring inaccuracy of temperature and humidity.
3. Note the method of the acceptance check of the transmitter. See the Appendix: Acceptance Checking Criteria
4. Avoid chemical reagents, grease or dust directly damage the sensor. Do not use in condensation, icing and temperature environments. Do not apply cold or hot impact to the sensor.
5. As a meter, the inspection cycle of the sensor is one year. Please use it according to the revised values after inspection.

Warranty

Bluemoon issues a guarantee for the material and workmanship of this product under normal operating conditions for one year from the date of delivery. Exceptional operating conditions Damage due to careless handling or misapplication will void the guarantee.



BM-RHT-2ASW



BM-RHT-2ASS



BM-RHT-2ASD