

# ROOM HUMIDITY TRANSMITTER (GSH-420)



## Application

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"GSH" Room Humidity Transmitters are intended for an electronic Humidity Transmitter to measure the Relative Room Humidity (RH) and convert the measurement into an electric signal.

## Equipment Combinations

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This unit can be used with all system equipments that can receive output signals 4-20mA DC of the detector.

## Operating Mode

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- Electronic sensing circuit varies signal into 4~20mADC (within 0~100% relative humidity)
- Sensing Accuracy is  $\pm 3\%$  within usable range of 20~90%RH

## Technical Data

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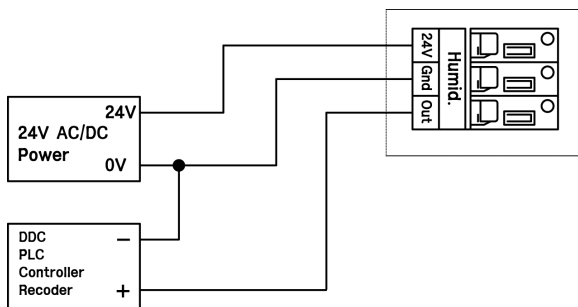
- SUPPLY VOLTAGE : 24V AC/DC  $\pm 20\%$
- FREQUENCY : 50 or 60Hz
- SENSING ELEMENT : Integrated Circuit
- POWER CONSUMPTION : 0.35VA
- SENSING RANGE : 0 ~ 100%RH
- ACCURACY at 20°C : at 20~90%RH within  $\pm 3\%$ RH
- OUTPUT SIGNAL : 4~20mADC
- SENSING TIME : Approx. 20sec
- AMBIENT TEMPERATURE :
  - 1) On Operation: -10 ~ +70°C
  - 2) On Transportation & Storage: -25 ~ +65°C
- AMBIENT HUMIDITY :
  - 1) On Operation: below 100%Rh
  - 2) On Transportation & Storage: below 95%RH

- WIRING : 3wires, 1.0mm<sup>2</sup> or Shield Cable
- WEIGHT : 0.06Kg
- HOUSING : plastic case
- PROTECTION CLASS : IP30

### Mounting Notes

- The element must not be touched and should be protected dust, water, spray and condensation.
- The sensor element must not be exposed to organic solvents, sulphid bearing materials.
- Select a location approx 1.5 meter above the floor.
- The sensor location should also be reasonably dean and free from damp and condensation.
- Fix with the bolts provided in pull box(50 × 100, 100 × 100)
- To avoid the conductive current the wires should be separated from power lines.
- Use the shield line when wiring.

### Wiring Diagram



### Dimension

