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## Room Temp. humidity sensor GSTH-1420N/GSTH-1100N

### Summary

- In the system of ventilation, HVAC, detect relative humidity and Temp.
- Used as control sensor
  - Display sensing value or measuring sensor to interface with BLDC system
  - In the factory of paper and fiber, food storage, warm room, etc
  - For data processing room, laboratory, indoor swimming pool, etc



### Unit Combination

Available with all systems and devices combined, that can accommodate sensor's output signal 4~20mA(GSTH-1420N) / 0~10VDC(GSTH-1100N).

### Control Mode

- Relative humidity : electrical circuit of sensor converts its signal to 4~20mA(GSTH-1420N), 0~10VDC(GSTH-1100N, equivalent to 0~100% relative humidity)
- Temperature : detected by Pt1000Ω(or Pt100Ω) whose electric resistance is varied by sensor's temperature

### Technical Data

- Power supply : 24V AC/DC  $\pm 20\%$
- Frequency : 50 or 60Hz
- Consumption power : below 1VA
- Sensing range : -10 ~ 70°C / 0 ~ 100%RH
- Accuracy at 20°C :  $\pm 2\%$  RH at 20 ~ 90% RH
- Output signal : Pt1000Ω(Pt100Ω) / 4~20mA(GSTH-1420N)  
Pt1000Ω(Pt100Ω) / 0~10VDC(GSTH-1100N)
- Sensing time : 20sec at 0.15m/sec velocity
- Ambient temperature :  
1) in operation : -10 ~ 70°C  
2) in transit or storage : -25~65°C
- Ambient humidity : below 95%RH (in operation)
- Protection : IP30
- Weight : 0.06kg

### Mounting Notes

- Location : install on the wall of the space in good air-circulation  
1.5m high from the ground
- Prohibitions : corner, shelf, behind the curtain, near or opposite to heat-source
- Not to be exposed to direct sunlight
- Seal the end of sensor cable not to make an error by dust-particle from cable tube

### Wiring Diagram

※ AC24V compatible only with sole Power supply(restriction from using 2 sensors in parallel)

