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Outside air Temp. humidity sensor GOTH-1420N / GOTH-1100N



Summary

- Used as control sensor to detect relative humidity and temperature in the system of ventilation, HVAC
- To display sensor value or to interface with BLDC system

Application

- Factory of paper and fiber, storage, warm rooms, Data processing rooms, hospitals, etc.
- In optimized conditions, used as measurement sensor

Control Mode

- Relative humidity : Electrical sensor circuit converts its signal to 4~20mA(GOTH-1420N), 0~10VDC(GOTH-1100N, equivalent to 0~100% relative humidity).
- Temperature : by PT1000Ω(Pt100Ω) whose electrical resistance is varied by sensing Temp.

Technical Data

- Power supply : 24V AC/DC ±20%
- Frequency : 50 or 60Hz
- Consumption power : below 1VA
- Sensing range : -35 ~ 80°C / 0~100%RH
- Accuracy at 20°C : ±2%RH at 20~90%RH
- Output signal : Pt1000Ω(Pt100Ω) / 4~20mA(GOTH-1420N)
Pt1000Ω(Pt100Ω) / 0~10VDC(GOTH-1100N)
- Sensing time : Appr. 20sec at 0.15m/sec velocity
- Ambient temperature
1) in operation : -35 ~ 80°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
- Prohibition : corners, shelves, behind the curtain, near or opposite to heating equipment
- Recommendations
 - 1.5m high from the ground without direct sunlight
 - Sealing the end of sensor wire to protect error caused by dust-particles from the cable tube

Wiring Diagram

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

