3-8 Room Temp. humidity sensor
GRTHO-1420N Pt1000 (Pt100)

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

Technical Data

· Power supply : 15V ~ 30VDC
· Output signal : Temp. Pt1000Ω(Pt100Ω) / Humidity 4~20mA
· Sensing range : Temp. -10~70℃ / Humidity 0~100%RH
· Sensor unit : Pt1000Ω(Pt100Ω)
· Heat current : below 2mA
· Accuracy : Temp. within ±0.2℃ at 25℃
            Humidity within ±2% at 10~90%RH
· Wiring : 5wire

· Sensing time : Appr. 20sec at 0.15m/sec velocity
· Ambient temperature
  1) in operation : -10~70℃
  2) in transit or storage : -25~65℃
· Ambient humidity : below 95%RH in operation
· Protection : IP30(EN60529)
· Weight : 0.10kg

Notes

- To control : recommend to install on the wall of house or building, not to be exposed to direct sunlight
- Locations : 1.5m high from the ground
- Prohibited locations : windows, doors, air outlet, upside of heat source / Veranda or eaves
- Sealing the cable of sensor not to make an error by air-convection
- Do not paint the sensor

Wiring Diagram

24 VDC Power

DDC PLC control record — Humi.

DDC PLC control record — Temp.

Humi. / Temp.

Pt1000Ω (Pt100Ω)

온습도 검출기