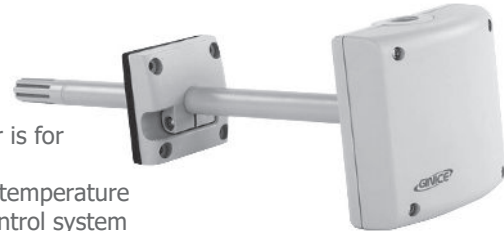


3-11

Duct Temp. humidity sensor GDTH-1420 / GDTH-1100

Application

- In the system of ventilation or HVAC, duct temp. humidity sensor is for
- air-supplying or distributing temp. humidity sensor
 - shift sensor to adjust room temp. humidity calculating outside temperature
 - measuring sensor to display sensing value or use DDC auto-control system



Unit Combination

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

Control Mode

- Relative humidity : electrical circuit of sensor converts its signal to 4~20mA(GDTH-1420), 0~10VDC(GDTH-1100, 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 : $-30 \sim 130^{\circ}\text{C}$ / $0 \sim 100\%\text{RH}$
- Accuracy at 20°C : $\pm 2\%\text{RH}$ at $20 \sim 90\%\text{RH}$
- Output signal : Pt1000Ω(Pt100Ω) / 4~20mA(GDTH-1420)
Pt1000Ω(Pt100Ω) / 0~10VDC(GDTH-1100)
- Sensing time : 20sec at 2m/sec velocity
- Ambient temperature : $-35 \sim 80^{\circ}\text{C}$ (in operation)
- Ambient humidity : below 95%RH (in operation)
- Housing : IP65 protection
- Cable entry gland : PF1/2"
- Weight(with bracket) : 0.170kg

Mounting Notes

- To control air-supplying temp. humidity : install behind fan that is located at the back of the last air-control unit
- To control air-distributing temp. humidity : behind fan in all cases
- Variances may be caused by clogged filter

Wiring Diagram

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

