

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

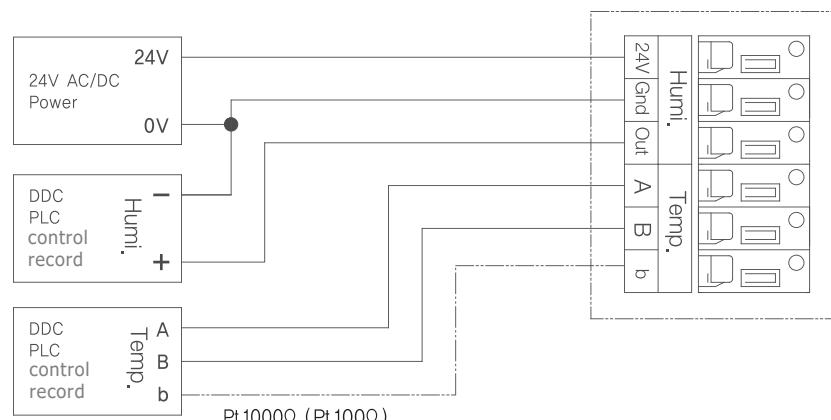
• Power supply : 24V AC/DC ±20%	• Sensing time : 20sec at 2m/sec velocity
• Frequency : 50 or 60Hz	• Ambient temperature : -35 ~ 80°C (in operation)
• Consumption power : below 1VA	• Ambient humidity : below 95%RH (in operation)
• Sensing range : -30 ~ 130°C / 0 ~ 100%RH	• Housing : IP65 protection
• Accuracy at 20°C : ±2%RH at 20 ~ 90% RH	• Cable entry gland : PF1/2"
• Output signal : Pt1000Ω(Pt100Ω) / 4~20mA(GDTH-1420) Pt1000Ω(Pt100Ω) / 0~10VDC(GDTH-1100)	• 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)



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