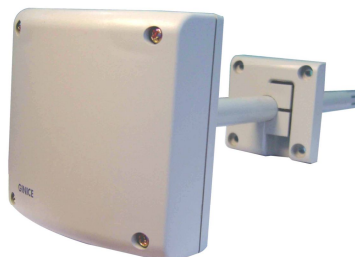


DUCT TEMP. & HUMIDITY TRANSMITTER

(GDTH-1420)



Application

"GDTHO" Duct Temperature & Humidity Transmitter is intended for ventilation and Air-handling units to detect Duct temperature and relative humidity.

Especially, this unit is very suitable for using in pulp/textile/food warehouse, greenhouse, computer room, R&D room, indoor swimming pool, hospital, etc.

Equipment Combinations

This unit can be used with all system equipments that can receive output signals 4~20mA DC of the detector.

Operating Mode

- Relative humidity
Electronic sensing circuit varies signal into 4~20mA DC
(Within 0~100% relative humidity)
- Temperature
This Transmitter senses temperature by sensing element of PT 1000Ω which varies electrical resistance depending on sensing temperature

Technical Data

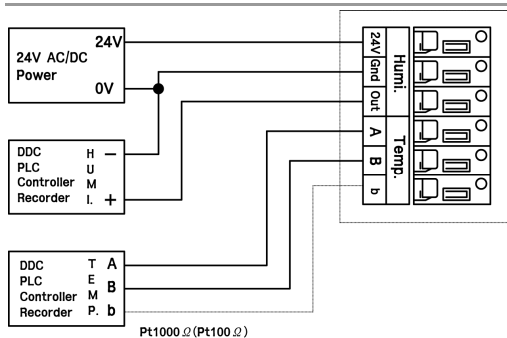
- | | |
|---------------------|-----------------------------|
| ● SUPPLY VOLTAGE | : 24V AC/DC ±20% |
| ● FREQUENCY | : 50 or 60Hz |
| ● POWER CONSUMPTION | : below 1VA |
| ● SENSING RANGE | : -30~+130℃ / 0~100%RH |
| ● HUMIDITY ELEMENT | : Integrated Circuit |
| ● ACCURACY(at20℃) | : at 20~90%RH, ±3%RH |
| ● OUTPUT SIGNAL | : Pt1000Ω(Pt100Ω)/4~20mA DC |

- SENSING TIME : Approx, 20sec.
- AMBIENT TEMPERATURE : On Operation: -35~+80℃
- AMBIENT HUMIDITY : On Operation : below 95%RH
- PROTECTION CLASS : IP54
- CABLE FITTING : PF 1/2"
- WEIGHT : 0.17Kg(W/BRACKET)

Mounting Notes

- Mounting positions :
 - At the detector has to be mounted on supply duct, the detector must be kept between 3 to 8 meters from the humidifier unit.
- For accurate measurement of the temperature, follow recommendation as :
 - Steam humidifier : between 5 to 8 meters
 - Spray water fogger: between 3 to 10 meters air duct supply.

Wiring diagram



Dimension

