

Duct Mount Humidity & Temperature Transmitter

Application:

Omicron humidity and temperature transmitters are designed for environment monitoring and controlling in industrial and commercial buildings. These transmitters can be used for:

- Humidity and temperature monitoring of supply, exhaust and return air
- Humidity and temperature monitoring in critical environment such as outside air
- Other applications of immersion humidity and temperature monitoring



Features:

- High performance digital sensors and circuits, ensure accurate measurement and temperature compensation
- Good long term stability and reliability
- 100% field changeable sensors, no re-calibration needed
- Fast response
- Digital technology applied, multiple output optional, over voltage and reverse polarity protection, high reliability and interference capability
- Industrial design, SS probe and selectable filter
- High protection rate up to IP65

Specifications:

Relative Humidity

Sensor	: Digital polymer
Range	: 0~100%RH
Output	: 4~20mA(2 wires), 0~10VDC(3 wires), RS485
Accuracy	: 2,3,4.5%RH(25°C,20~80%RH)
Hysteresis	: <±1%RH
Response time	: <10s(25°C,in slow air)
Drift	: <±0.5%RH/year

Temperature

Sensor	: Solid state band gap, RTD or thermistor
Range	: 0~50°C,0~100°C, -40~60, or others (transmitter)
Output	: 4~20mA(2 wires) ,0~10VDC(3 wires),RS485, or RTD, thermistor
Accuracy	: see model table
Power	: Current 7.5~36VDC, Voltage & Other 15~35VAC/DC
Output Load	: <600Ω (current), >2KΩ (voltage)
Temperature Limit	: -40~85°C,0~95%RH(Non condensing)
Storage Temperature	: -40~80°C
Housing	: Fireproof ABS Enclosure, SS probe, SS mesh filter or sintered filter
Protection	: IP65

Duct Mount Humidity & Temperature Transmitter

Optional MMI operation panel:

Including LCD, integrated with function keys, can be ordered and operated in field separately. See details on MMI product

Models:

Code	Descriptions
------	--------------

H2	: Duct mount Temp./RH transmitter
----	-----------------------------------

Code	RH Accuracy
------	-------------

2	: $\pm 2\%RH$
3	: $\pm 3\%RH$
5	: $\pm 4.5\%RH$

Code	RH Output (0-100%RH)
------	----------------------

1	: 0-10VDC(3 wires)
2	: 4-20mA(2 wires)
8	: RS485, Modbus

Code	Temperature Output
------	--------------------

0	: No
1	: 0-10VDC(3 wires) $\pm 0.4^{\circ}C@25^{\circ}C$
2	: 4-20mA(2 wires) $\pm 0.4^{\circ}C@25^{\circ}C$
3	: PT1000, $\pm 0.2^{\circ}C@25^{\circ}C$
4	: PT100, $\pm 0.2^{\circ}C@25^{\circ}C$
5	: NTC20K, $\pm 0.4^{\circ}C@25^{\circ}C$
6	: Ni 1000, $\pm 0.4^{\circ}C@25^{\circ}C$
7	: NTC10K-II, $\pm 0.4^{\circ}C@25^{\circ}C$
8	: RS485, Modbus
9	: NTC10K-III, $\pm 0.4^{\circ}C@25^{\circ}C$
A	: NTC10K-A, $\pm 0.4^{\circ}C@25^{\circ}C$

Code	Temperature Range
------	-------------------

0	: No
1	: 0-50°C
2	: 0-100°C
3	: -40-60°C
7	: others

Duct Mount Humidity & Temperature Transmitter

Models:

Code	Filter
0	: SS mesh
1	: SS sintered

Enclosure:

Code	
-	: Weatherproof Enclosure
Ex	: Explosionproof Enclosure

Dimension (mm):

*H series products are powered on RH circuit, so the RH circuit must be powered. Otherwise it will not function.

H2

