

Separate Probe Humidity & Temperature Transmitter

Applications:

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	: 1.6 / 2.0 / 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



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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
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H4	: Separate Probe Temp./RH transmitter
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Code	RH Accuracy
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1	: $\pm 1.6\%RH$
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2	: $\pm 2.0\%RH$
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3	: $\pm 3.0\%RH$
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5	: $\pm 4.5\%RH$
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Code	RH Output (0-100%RH)
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1	: 0-10VDC(3 wires)
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2	: 4-20mA(2 wires)
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8	: RS485, Modbus
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Code	Temperature Output
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0	: No
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1	: 0-10VDC(3 wires)
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2	: 4-20mA(2 wires)
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3	: PT1000, $\pm 0.2^{\circ}C@25^{\circ}C$
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4	: PT100, $\pm 0.2^{\circ}C@25^{\circ}C$
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5	: NTC20K, $\pm 0.4^{\circ}C@25^{\circ}C$
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6	: Ni 1000, $\pm 0.4^{\circ}C@25^{\circ}C$
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7	: NTC10K-II, $\pm 0.4^{\circ}C@25^{\circ}C$
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8	: RS485, Modbus
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9	: NTC10K-III, $\pm 0.4^{\circ}C@25^{\circ}C$
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A	: NTC10K-A, $\pm 0.4^{\circ}C@25^{\circ}C$
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Code	Temperature Range
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0	: No
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1	: $0-50^{\circ}C$
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2	: $0-100^{\circ}C$
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3	: $-40-60^{\circ}C$
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7	: others
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Models:

Code	Filter
0	: SS mesh
1	: SS sintered

Dimension (mm):

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

