

## 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% 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°C, or others
Output	: 4~20mA(2 wires), 0~10VDC(3 wires), RS485, RTD or thermistor
Accuracy	: see model table
Power	: Current Output: 7.5~36VDC, Voltage Output: 15~35VAC/DC
Output Load	: <600 Ω (current), >2KΩ (voltage)
Temperature Limit	: -40~100°C, 0~99%RH (Non condensing)
Display	: Large LCD display (Optional)
Display Resolution	: 0.1°C, 0.1%RH
Storage Temperature	: 0~70°C, 0~95%RH (Non condensing)
Housing	: Fireproof ABS, SS Probe, SS Mesh
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
H4	: Separate Probe Temp./RH transmitter

Code	RH Accuracy
2	: $\pm 1.6\%RH$
3	: $\pm 2.0\%RH$

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) $\pm 0.2^{\circ}C@25^{\circ}C$
2	: 4-20mA(2 wires) $\pm 0.2^{\circ}C@25^{\circ}C$
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

## Separate Probe Humidity & Temperature Transmitter

### ⚙️ Models:

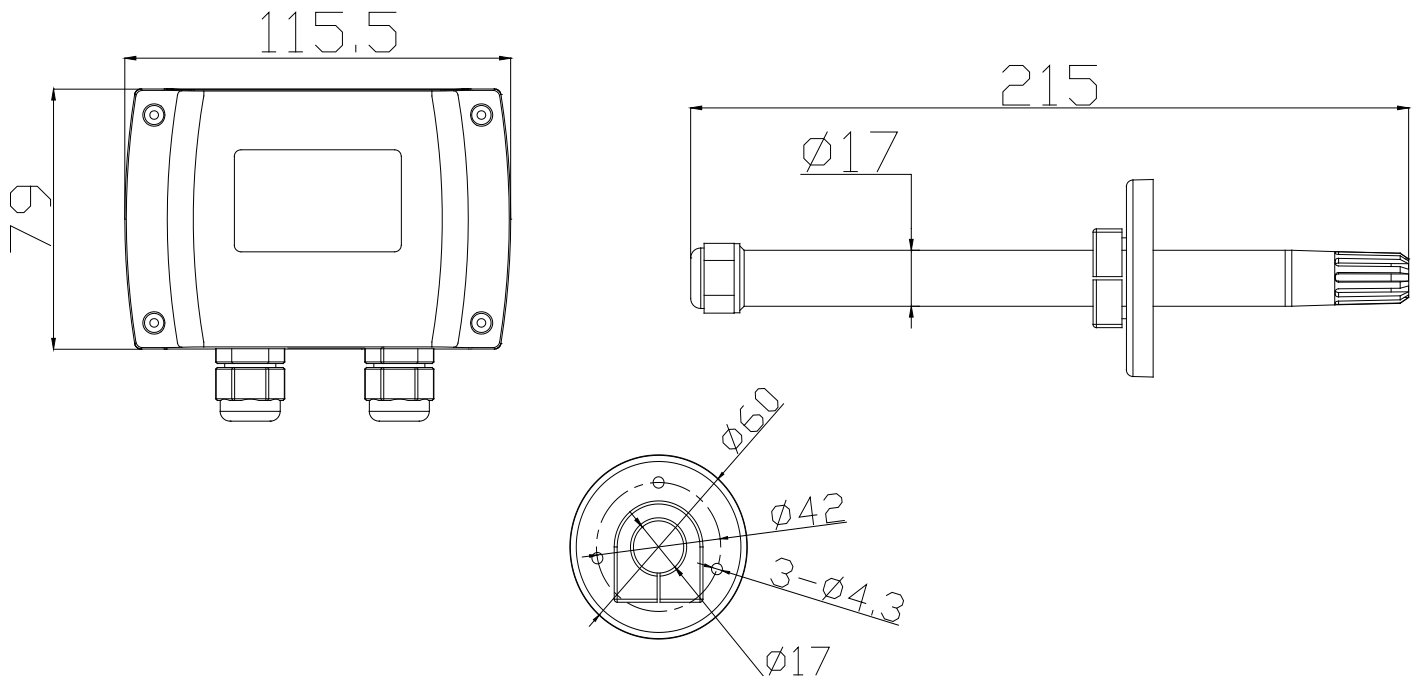
Code	Relay Contact
0	: No
1	: 2 x SPST (Not Applicable for 4-20mA Output)

Code	LCD Display
0	: No
1	: Yes

Code	Enclosure
-	: Weatherproof Enclosure
Ex	: Explosionproof Enclosure

### ⚙️ Dimension (mm):

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



Install Flange