

## H2,3,4 Humidity & Temperature Transmitter



### Applications

H2, 3 and 4 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 (H2, duct mount)
- Humidity and temperature monitoring in critical environment such as outside air (H3, outside mount)
- Other applications of immersion humidity and temperature monitoring (H4, separate probe)

### 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
- Multiple output signals selectable
- Industrial design, SS probe and selectable filter
- High protection rate up to IP65

### Specifications

**Relative Humidity:**

**Sensor:** Capacitance polymer

**Range:** 0~100%RH

**Output:** 4~20mA /0~10VDC/RS485

**Accuracy:** 2%, 3% and 4.5%RH(25°C, 20~80%RH)

**Hysteresis:** < ± 1%RH

**Response time:** < 10s (25°C, in slowly flow air)

**Drift:** < ±0.5%RH/year

**Temperature:**

**Sensor:** Solid state band gap, RTD or thermistors

**Range:** 0~50°C for transmitter

**Output:** 4~20mA/0~10V/RS485, RTD or thermistors

**Accuracy:** < ±0.5° C@25° C

**Power:** Voltage 15~35VAC/DC, current 7.5~36VDC

**Output Load:** <500Ω (current), >2KΩ (voltage)

**Temperature Limit:** -40~85°C, 0~95%RH (Non condensing)

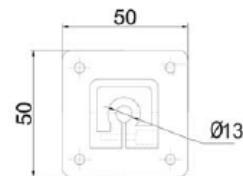
**Storage Temperature:** -40~80°C

**Housing:** ABS Enclosure, SS probe, SS sintered or mesh filter

**Protection:** IP65

**Optional MMI operation panel:** Including LCD, integrated with function keys, can be ordered and operated in field separately(H2/3/4). See details on MMI product.

**Accessory:** install flange



## Models

Code	Descriptions
H2	Duct mount temp./RH transmitter
H3	Outside air temp./RH transmitter
H4	Separate temp./RH transmitter

Code	RH Accuracy
2	±2%RH
3	±3%RH
5	±4.5%RH

Code	RH Output (0-100%RH)
1	0-10VDC
2	4-20mA
8	RS485, Modbus

Code	Temp. Output
0	No
1	0-10VDC
2	4-20mA
3	PT1000, ±0.2°C@25°C
4	PT100, ±0.2°C@25°C
5	NTC20K, ±0.2°C@25°C
6	Ni 1000, ±0.4°C@25°C
7	NTC10K, ±0.2°C@25°C
8	RS485, Modbus
9	Others

Code	Temp. Range
0	No
1	0-50°C
2	0-100°C
3	-40-60°C
7	Others

Code	Filter
0	Stainless steel mesh
1	Stainless steel sintered

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

## Dimension (mm)

