



Applications & Features

- H1N is designed for indoor air temperature and humidity measurement
- High performance digital sensors & circuits, ensure accurate measurement & temp. compensation
- Good long term stability and reliability,
- 100% changeable sensors without re-calibration
- Fast response
- State of art housing design, easy installation & wiring
- All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring
- Digital technology applied, multiple outputs optional, over voltage and reverse polarity protection, high reliability and anti-interference capability
- LCD display temperature and humidity alternatively
- LCD & function keys can set parameters and calibrate output, so the product can be a stand alone controller

Specifications

Relative Humidity

Sensor: Digital polymer

Range: 0~100%RH

Output: 4~20mA (2 wires), 0~10VDC (3 wires), RS485/Modbus

Accuracy: 2, 3%RH (25°C, 20~80%RH)

Hysteresis: <±1%RH

Response time: <10s (25°C, in slow air)

Drift: <±0.5%RH/year

Temperature

Sensor: Digital, RTD or thermistor, see models

Range: 0~50°C

Output: 4~20mA (2wires), 0~10VDC(3wires), RS485/Modbus, or RTD/thermistor

Accuracy: transmitter: <±0.4°C(0.3°C)@5~60°C
PT100/1000: <±0.2°C@25°C
Others: ±0.4°C@25°C

Power: Current 7.5~36VDC;

Voltage: 15~28VAC/ 15~36VDC

Output Load: ≤500Ω (current), ≥2KΩ (voltage)

Relay output: 2×SPST, 3A/30VDC, 3A/250VAC

Display and Keys: 4 digits LCD, with unit indication, backlight (4-20mA N/A), 3 touch keys, see details on LCD & Keys operation

Display Resolution: 0.1°C, 0.1%RH

Temp. Limit: -20~70°C, 5~95%RH (Non condensing)

Storage Temperature: -20~80°C

Housing: PC

Protection: IP30

Approval: CE

Models

Model	H1N						Wall mount Temp./RH transmitter
RH Accuracy		2	3				±2%RH(0.3°C) ±3%RH(0.4°C)
RH Output			1	2	8		0-10VDC(3 wires) 4-20mA(2 wires) RS485/Modbus
Temp. Output				0	1	2	No 0-10VDC(3 wires) 4-20mA(2 wires) PT1000, ±0.2°C@25°C PT100, ±0.2°C@25°C NTC20K, ±0.4°C@25°C Ni 1000, ±0.4°C@25°C NTC10K-II, 0.4°C@25°C RS485/Modbus NTC10K-III, 0.4°C@25°C NTC10K-A, 0.4°C@25°C
Temp. Range				0	1	2	No 0-50°C 0-100°C -40-60°C others
Relay					0	1	No 2×SPST(4-20mA N/A)
LCD& Keys						0	No 1 LCD 2 LCD & Keys

*H1N series current products are powered on RH circuit, so the RH circuit must be powered. Otherwise it could not work.