



Applications & Features

- Humidity and temperature transmitters H2N (duct), H3N (outside) and H4N (remote) are designed for environment monitoring and controlling in industrial and commercial buildings.
- High performance digital sensors and circuits, ensure accurate measurement and temperature compensation
- 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
- Good long term stability and reliability
- 100% field changeable sensor without re-calibration
- Fast response
- High protection rate up to IP65

Specifications

Relative Humidity

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

Temperature

Sensor: Digital temperature sensor or RTD/thermistor
Range: 0~50°C, 0~100°C, -40~60°C, or others
Output: see models
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: Voltage 15~28VAC/15~36VDC
 Current 7.5~36VDC

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 more details on LCD & Keys operation

Work Temp.: -30~85°C (LCD: 0~50°C), 5~95%RH (Non condensing)

Housing: Fireproof ABS housing, UHMW-PE filter (H2/H4N), SS probe and sintered filter (H3N)

Protection: IP65

Approval: CE

Models

Model	H2N						Duct mount Temp./RH transmitter
	H3N						Outside air Temp./RH transmitter
	H4N						Remote mount Temp./ RH transmitter
RH Accuracy	2						±2%RH(0.3°C)
	3						±3%RH(0.4°C)
RH Output	1						0-10VDC(3 wires)
	2						4-20mA(2 wires)
	8						RS485/Modbus
Temp. Output	0						No
	1						0-10VDC(3 wires)
	2						4-20mA(2 wires)
	3						PT1000, ±0.2°C@25°C
	4						PT100, ±0.2°C@25°C
	5						NTC20K,±0.4°C@25°C
	6						Ni 1000, ±0.4°C@25°C
	7						NTC10K-II, 0.4°C@25°C
	8						RS485/Modbus
	9						NTC10K-III,0.4°C@25°C
A						NTC10K-A, 0.4°C@25°C	
Temp. Range	0						No
	1						0-50°C
	2						0-100°C
	3						-40-60°C
	7						others
Relay	0						No
	1						2×SPST(4-20mA N/A)
LCD & Keys	0						No
	1						LCD
	2						LCD & Keys

*H2,3,4N series current products are powered by RH circuit, so the RH circuit must be powered. Otherwise it could not work.