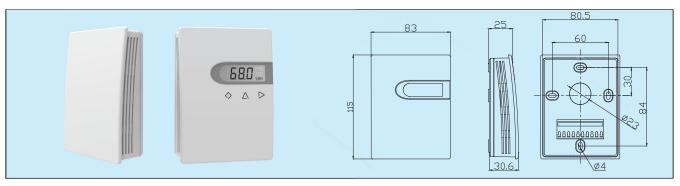
# **H1N Wall Mount Temperature & Humidity Transmitter**





## **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		2						±2%RH(0.3°C)
Accuracy		3						±3%RH(0.4°C)
RH			1					0-10VDC(3 wires)
Output			2					4-20mA(2 wires)
Output			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
				Α				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
Relay						1		2×SPST(4-20mA N/A)
LCD&							0	No
Keys							1	LCD
ricy3							2	LCD & Keys

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