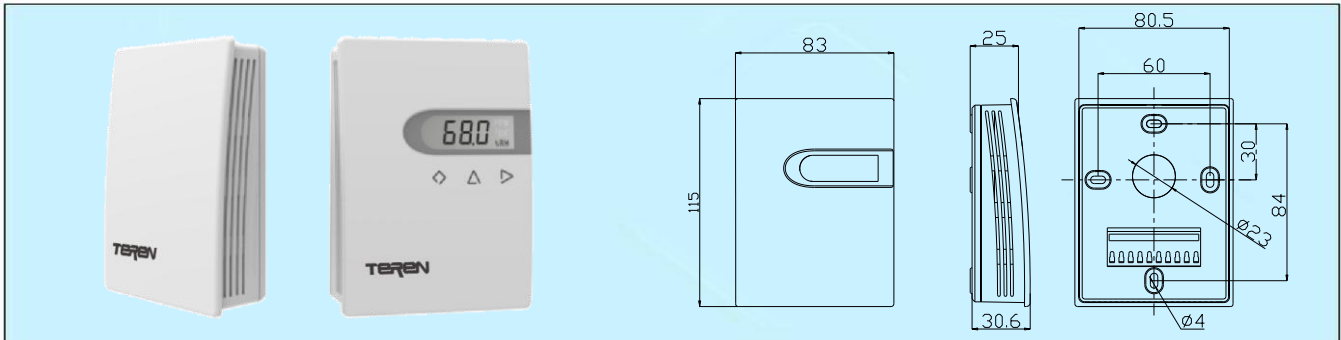


# H1N Wall Mount Temperature & Humidity Transmitter



## Applications & Features

- It 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: see Models and resistance table

**Accuracy:** transmitter: <±0.4°C(0.3°C) @5~60°C  
RTD or thermistor: typical 0.2~0.4°C @ 25°C, see models

**Power:** Current: 18.5~35VDC ( $R_{load}=500\Omega$ )  
8.5~35VDC ( $R_{load}=0\Omega$ )  
Voltage: 16~28VAC/ 16~35VDC

**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 cond.)

**Storage Temperature:** -20~80°C

**Housing:** ABS+PC

**Protection:** IP30

**Weight:** 110g

**Approval:** CE

## Models

Model	H1N					Wall mount Temp./RH transmitter
<b>RH Accuracy</b>		2				±2%RH(0.3°C) ±3%RH(0.4°C)
<b>RH Output</b>			1			0-10VDC(3 wires)
			2			4-20mA(2 wires)
			8			RS485/Modbus
<b>Temp. Output</b>				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
<b>Temp. Range</b>					0	No
					1	0~50°C
					7	others
<b>Relay</b>					0	No
					1	2×SPST(4-20mA N/A)
<b>LCD&amp; Keys</b>						0 No
						1 LCD
						2 LCD & Keys

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

2. Only when the temperature output is 1 or 2, the temperature range 1-7 is applicable. Otherwise, always use 0 as temperature range selection.

3. See resistance table on page 1 of this catalog.