

H1N Room Temperature & Humidity Transmitter



Applications & Features

- Apply for indoor air T/RH measurement with good performance digital sensor & circuit. The sensor is 100% field changeable without re-calibration
- Good long term stability, reliability and fast response
- State of art housing. All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring
- Multiple outputs optional, over voltage and reverse polarity protection, and good anti-interference capability
- 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: see Models

Accuracy: transmitter: <±0.4°C(0.3°C) @ 5~60°C, see models

Power: Current: 18.5~35VDC (R_L=500Ω); 8.5~35VDC (R_L=0Ω)

Voltage: 16~28VAC/ 16~35VDC

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

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

Display and Keys: 4 bits LCD, with unit indication, backlight

(4~20mA N/A), 3 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: fire retardant PC(UL94V-0), **Protection:** IP30

Weight: 110g **Approval:** CE

Models

Model	H1N					Room T/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, ±0.2°C@25°C
			6			Ni 1000, ±0.5°C@25°C
			7			NTC10K-II, 0.2°C@25°C
			8			RS485/Modbus
			9			NTC10K-III, 0.3°C@25°C
		A			NTC10K-A, 0.3°C@25°C	
Temp. Range				0		No
				1		0~50°C
				7		others
Relay				0		No
				1		2xSPST (4-20mA N/A)
LCD& Keys					0	No
					1	LCD
					2	LCD & Keys

1. Current output products are powered on RH circuit, so RH circuit must be powered.

2. When temp. output is 1 or 2, the range 1-7 is applicable. Otherwise, always use 0.

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