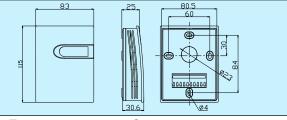
INTELLIGENCE

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 =500 Ω): 8.5~35VDC (R_L =0 Ω) Voltage: 16~28VAC/ 16~35VDC **Output Load:** ≤500 Ω (current), ≥2K Ω (voltage) **Relay output:** 2×SPST, 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		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
				0				No
				1				0~10VDC(3 wires)
				2				4~20mA(2 wires)
				3				PT1000, ±0.2°C@25°C
Temp.				4				PT100, ±0.2°C@25°C
Output				5				NTC20K, ±0.2°C@25°C
Output				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
				А				NTC10K-A, 0.3°C@25°C
Temp.					0			No
Range					1			0~50°C
Kange					7			others
Relay						0		No
						1		2xSPST (4-20mA N/A)
LCD&							0	No
Keys							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.