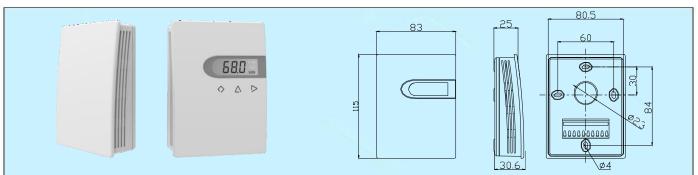
Transmitter H1N Wall Mount Temperature & Humidity Transmitter



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 output optional, over voltage and reverse polarity protection, high reliability 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 10VDC(3wires), Accuracy: transmitter: <±0.4°C(0.3°C)@5~60°C

models

Power: Current: 18.5~35VDC (R_{load}=500Ω)

8.5~35VDC (R_{load}=0Ω)

Voltage: 16~28VAC/ 16~35VDC

Output Load: $\leq 500\Omega$ (current), $\geq 2K\Omega$ (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: ABS+PC Protection: IP30 Approval: CE

Models

<u> </u>								
Model	H1N							Wall mount Temp./RH transmitter
RH		2						±2%RH(0.3°C)
Accuracy		3						±3%RH(0.4°C)
Accuracy		Ť	1					0-10VDC(3 wires)
RH Output		ŀ	2					4-20mA(2 wires)
(0-100%RH)		ŀ	8					RS485/Modbus
			H	0				No
	1	ŀ	ŀ	1				0-10VDC(3 wires)
	1	ŀ	ŀ	2				4-20mA(2 wires)
		ŀ	ŀ	3				PT1000, ±0.2°C@25°C
				4				PT100, ±0.2°C@25°C
			İ	5				NTC20K.
								±0.4°C@25°C
Temp.		İ	İ	6				Ni 1000, ±0.4°C@25°C
Output			İ	7				NTC10K-II,
								0.4°C@25°C
		İ		8				RS485/Modbus
		İ	İ	9				NTC10K-III,
								0.4°C@25°C
				Α				NTC10K-A,
								0.4°C@25°C
Tomp					0			No
Temp.					1			0-50°C
Range					7			others
						0		No
Relay						1		2 × SPST(4-20mA
								N/A)
LCD&							0	No
Keys							1	LCD
Neys							2	LCD & Keys

RTD or thermistor: typical 0.2~0.4°C@ 25°C, see
*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.

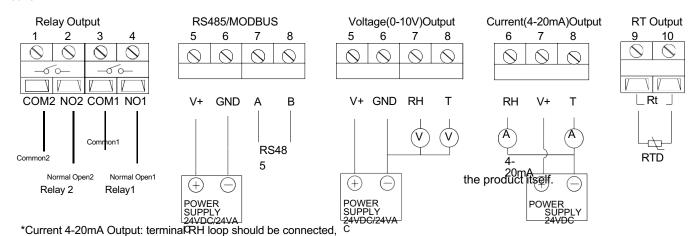
^{*3.} See resistance table on page 1 of this catalog.

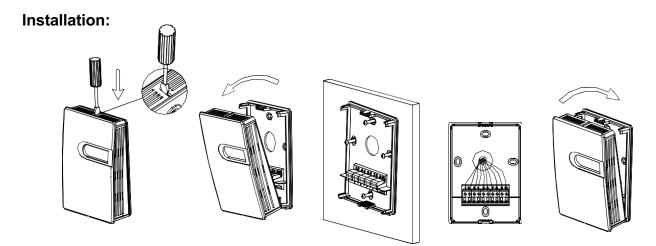
otherwise the transmitter can not work.

Transmitter

Connection:

Different models have different electrical terminals. Please wire specific model according to the wiring diagram inside the front cover.





- It should be installed vertically on the wall. The installation site should be far away from heater, cooler, fan, humidifier, dehumidifier, and other heat/cool/humidity
- Use a screwdriver, insert into the snap at the upper side of the housing, and push down a little, then open the front cover.
- Feed the cable into the housing before installing the base on the wall according to the diagram.
- Finish electrical connection according to the wiring diagram.
- Restore the front cover, and finish the installation.

Attention:

It should be power OFF during installing and wiring. When using 24VAC, it is strongly recommended to power the unit with independent transformer. If sharing a 24VAC transformer with other equipments such as controllers, transmitters or actuators, please make sure the terminals 24V and GND are connected correctly. Otherwise, it will perhaps reduce serious damages.

Warranty:

- It has limited warranty for eighteen (18) months after the production date.
- It does not extend to any unit that has been subjected to misuse or accident.
- · It is, in any event, strictly limited to the replacement or repair of