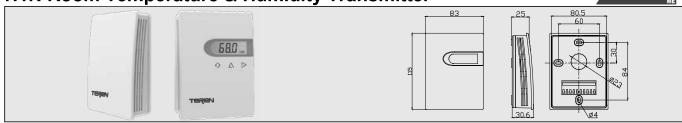
H1N Room Temperature & Humidity Transmitter





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: \leq 500 Ω (current), \geq 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

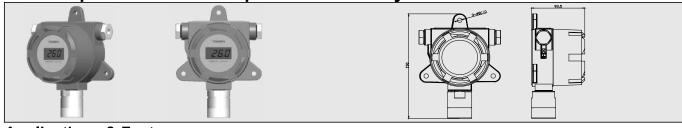
Weight: 110g Approval: CE

Modals

woders								
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)
			2					4~20mA (2 wires)
Output			8					RS485/Modbus
				0				No
Temp. Output				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
				Α				NTC10K-A, 0.3°C@25°C
Temp.					0			No
					1			0~50°C
Range					7			others
Relay						0		No
						1		2×SPST (4-20mA N/A)
LCD&							0	No
Kevs							1	LCD
110,0							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.

H3Ex Explosion-Proof Temperature/Humidity Transmitter



Applications & Features

- T/RH measurement in harsh and combustible, explosive or toxic areas. Moisture and corrosion resistant, IP66
- Industrial die cast aluminum housing, with the sensor placed in the separated metal chamber, ensure electrically isolated. The sensor assembly is easy to maintain or replace
- High-performance temperature/humidity sensor and circuit, accurate measurement and compensation, high accuracy,
- fast response, good long-term stability

 Meet Explosion Proof standards GB 3836.1-2010 and GB 3836.2-2010 with certificate Exd II CT6Gb. Suitable for Zone 1 & 2 hazardous areas where there are explosive mixtures of IIA, IIB, IIC, T1-T6 combustible gas, vapor and air

Specifications

_	Hum.	Temp.
Range	0~100%RH	0~50°C etc.
Accuracy	Typ. 3%@25°C,20~80%RH	Typ. ±0.5°C@ 0~50°C
Hys. & Rep.	<±0.8%RH@ 25°C	±0.1°C
Response	<60s (25°C, in slow air)	<3min
Drift	<±0.25%RH/year	<±0.1°C /year

Sensor: High precision digital sensor

Power: 18.5~35VDC

Output: 2x 4~20mA (3 wires), RS485/Modbus

Range: humidity 0~100%RH; temperature 0~50(default)/

100/-20~80/-40~60°C, selected by switch

Load: \leq 500Ω (4-20mA) Display: LCD, with backlight

Operating condition: -20~60°C, 5~95%RH(Non-cond.) Housing: die cast aluminum housing, SS probe and SS mesh filter

Protection: IP66

Approval: CE, Exd II CT6Gb, EMC(2014/30/EU, EN50270)

Weight: 1.8kg

Models

Model	H3Ex		Ex-proof Temp. /Hum. Transmitter
Output		2	2 x 4~20mA (3 wires)
		8	RS485/Modbus