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
- Multiple outputs optional, over voltage and reverse polarity protection, and good anti-interference capability
 CD & function loss and politication of the politi
- 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: $\leq 500\Omega$ (current), $\geq 2K\Omega$ (voltage) Relay output: $2\times$ SPST, 3A/30VDC, 3A/250VACDisplay 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	LIAN							Deem T/DLL transmitter
Niouei	HIN	_						Room I/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
Tomp				4				PT100, ±0.2°C@25°C
Output				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
				А				NTC10K-A, 0.3°C@25°C
Tomp					0			No
Temp.					1			0~50°C
капуе					7			others
Polay						0		No
itelay						1		2×SPST (4-20mA N/A)
							0	No
Kevs							1	LCD
10,0							2	LCD & Kevs

Current output products are powered on RH circuit, so RH circuit must be powered.
 When temp. output is 1 or 2, the range 1-7 is applicable. Otherwise, always use 0.
 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: ≤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	x Ex-proof Temp. /Hum. Transmitte	
Output		2	2 x 4~20mA(3 wires)
Output		8	RS485/Modbus