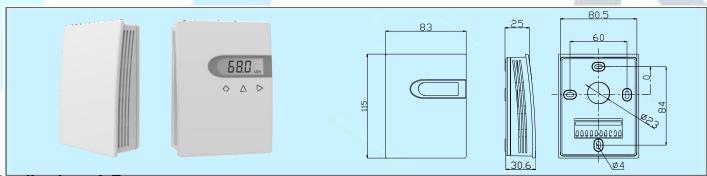
RSA SENSORES, CONTROLES, VALVULAS, ATUADORES, EQUIPAMENTOS, HVAC E AUTOMAÇÃO

Avenida Ragueb Chohfi, 960 - Torre 3, Sala 73 - Jardim Três Marias, São Paulo-SP, Cep: 08375-000

Telefone Sac: 55 11 2031 6658 - WHATSAPP 11 979936574

Email: contato@rsa-sensors.com.br Site: http://www.rsa-sensors.com.br

RSA-TU1A Wall Mount Temperature & Humidity Transmitter



Applications & Features

- RSA-TU1A 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 and 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 RTD/thermistor Accuracy: transmitter: <±0.4°C(0.3°C)@5~60°C RTD or thermistor: typical 0.2~0.4°C@ 25°C,

see models
Power: Current: $18.5 \sim 35$ VDC ($R_{load} = 500\Omega$) $8.5 \sim 35$ VDC ($R_{load} = 0\Omega$) 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 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

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Models	1							
Model	RSA- TU1A							Wall mount Temp./RH transmitter
RH		2						±2%RH(0.3°C)
Accuracy		3						±3%RH(0.4°C)
RH Output			1					0-10VDC(3 wires)
(0-100%RH)			2					4-20mA(2 wires)
(0-100 /61(11)			8					RS485/Modbus
				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,
Temp.								±0.4°C@25°C
Output				6				Ni 1000, ±0.4°C@25°C
Output				7				NTC10K-II,
								0.4°C@25°C
				8				RS485/Modbus
				9				NTC10K-III,
								0.4°C@25°C
				Α				NTC10K-A,
								0.4°C@25°C
Temp.					0			No
Range					1			0-50°C
ivalige					7			others
						0		No
Relay						1		$2 \times SPST(4-20mA)$
								N/A)
LCD&							0	No
Keys							1	LCD
Neys							2	LCD & KEYS
	eries cur	rent	proc	lucts	are	wog	erec	LACEH & IKAN So the RH

circuit must be powered. Otherwise it could not work.

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

^{*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.

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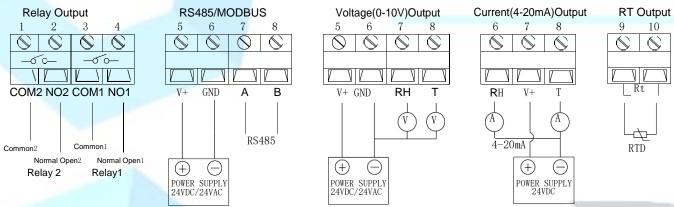
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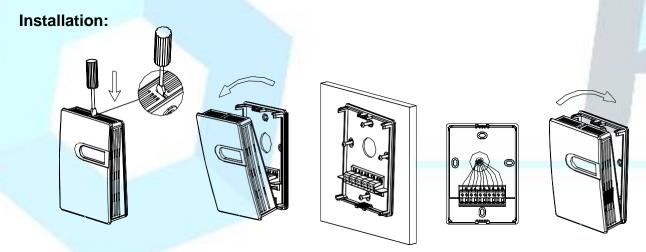
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Connection:

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



^{*}Current 4-20mA Output: terminal RH loop should be connected, otherwise the transmitter can not work.



- 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 sources.
- 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 the product itself.

