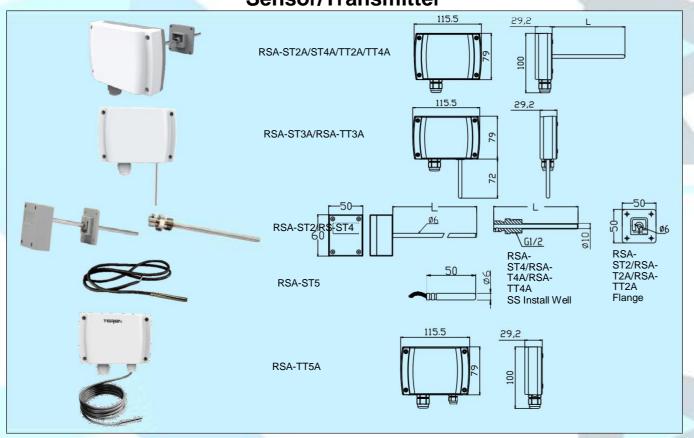
RSA-ST/RSA-TT2, 3, 4A, RSA-ST5, RSA-TT5A Series Temperature Sensor/Transmitter



Applications & Features

- These sensors/transmitters can be used for temperature measurement in duct air(RSA-ST2/RSA-T2A/RSA-TT2A), water and steampipe(RSA-ST4/RSA-ST4A/RSA-TT4A), outside air(RSA-ST3A/RSA-TT3A) and surface/strap(RSA-ST5/RSA-TT5A)
- High performance thermistor & RTD, ensure accuratetemperature measurement
- Multiple output optional, Light and state of art housing, easy installation
- Over voltage and reverse polarity protection, highreliability and anti-interference capability
- Wide temperature range and fast response
- High protection rate up to IP65

Specifications

RSA-ST2/ST4/ST5, RSA-ST2/3/4A series temperature sensor Sensor: High accuracy thermistor or

RTD, see models

Output: thermistor or RTD, see models and resistance table

Accuracy: typical ±0.2~0.4°C@25°C, see models

Wiring: 2 wires or 3 wires (RTD)

(3 wires connection could obtain better accuracy) Work Temp.(Whole product): -40~70°C, 0~95%RH

(Non cond.) Medium Temperature (Probe): -40~100°C

Cable(RSA-ST5/RSA-TT5A): Black, silicone, 2*0.3mm², 1m length,

-60~180°C, Rconductor=0.069 Ω /m, Rinsulation >100M Ω (25°C)

TT2/3/4/5N series temperature transmitterSensor: PT1000, class A

Range: see models

Output: 4~20mA (2 wires) or 0-10VDC,0-5VDC

Output Load: $\leq 500\Omega$ (current), $\geq 3k\Omega(0-10VDC)$, $\geq 2k\Omega(0-5VDC)$ Total accuracy: $\leq \pm 0.5^{\circ}C$ @0~50°C, see

accuracy curve Power: Current 18.5~35VDC (R_L =500 Ω) 8.5~35VDC (R_L =0 Ω)

Voltage 16~35VDC, 16~28VAC

Work Temp.(Whole product): -30~70°C, 0~95%RH(Non cond.)

Medium Temperature(Probe): -40~100°C

Storage Temperature: -30~70°C

Housing: fireproof ABS, SS probe(φ6mm), SS Well **Protection:** IP65 (IP68 for T5/TT5N probe, 1m water depth)



0.0 ±0.1 ±0.2 ±0.3 ±0.4 ±0.5 ±0.6 ±0.7 ±0.8 ±0.9 ±1.0

Weight: RSA-ST2:161g; RSA-ST4:340g; RSA-ST5:36g; RSA-ST2A: 268g; RSA-ST3A: 222g; RSA-ST4A:477g; RSA-ST5A:477g; RSA-ST5A:477g; RSA-ST5A:477g; RSA-ST5A:477g

TT2A: 282g; RSA-TT3A: 190g; RSA-TT4A: 464g; RSA-TT5A: 205g

Approval: CE







Models

RSA-ST2/RSA-ST4, RSA-ST5 RSA-ST2/3/4A temperature sensors

Model	RSA-ST2/ST2A RSA-ST3A RSA-ST4/RSA-ST4A RSA-ST5	RSA-ST3A A-ST4/RSA-ST4A		Duct mount temperature sensor Outside air temperature sensor Immersion temperature sensor Cable temperature sensor	
Thermis tor or RTD*				PT1000, ±0.2°C@25°C PT100, ±0.2°C@25°C NTC20K, ±0.4°C@25°C Ni 1000, ±0.4°C@25°C NTC10K-II, ±0.4°C@25°C NTC10K-K-E.U.4°C@25°C NTC10K-III, ±0.4°C@25°C	
Length (RSA- ST2/RSA- ST2A/RSA-ST4/ RSAST4A)			0 1 2 7	75mm 125mm 200mm Others	

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

^{*}The default cable length of RSA-ST5 is 1m. It can be ordered for other length of integer meters, such as RSA-ST53-2, which means the cable length is 2 m.



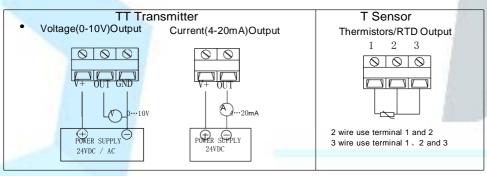
RSA-TT2/3/4/5A series temperature transmitter							
	RSA- TT2A	A			Duct mount temperature transmitter		
Model	RSA- TT3A		4		Outside air temperature transmitter		
	RSA- TT4A				Immersion temperature transmitter		
	RSA- TT5A				Remote temperature transmitter		
Output		1 2 E			0~10V 4-20mA(2 wires) 0~5V		
Range	Y		1 2 3 7		0-50°C 0-100°C -40-60°C others		
Probe Length (RSA- TT2/4A)				0 1 2 7	75mm 125mm 200mm Others		

RSA-ST4/RSA-ST4A/RSA-TT4A Install Well

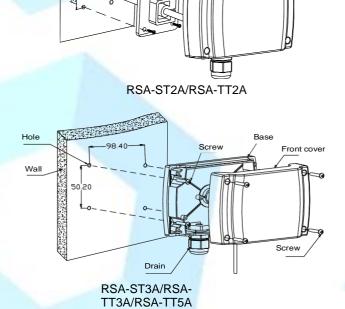
Model	RSA- A-T		Stainless Steel Well
Drobo		0	75mm
Probe Length		1	125mm
Length		2	200mm

Connection

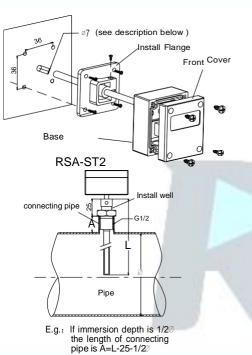
Different models have different electrical terminals. Please wire according to the wiring diagram on specific product.



Installation



Install Flange



RSA-ST4/RSA-

ST4A/RSA-TT4A

^{*}The default cable length of RSA-TT5A is 1m. It can be ordered for other length of integer meters, such as RSA-TT5A11-2, which means the cable length is 2 m.

- The install flange is recommended for installing the RSA-ST2/RSA-T2A/RSA-TT2A. The depth being inserted is adjustable. Open a hole of Φ 7mm on the duct. Install the flange with the duct using 4 screws, and use another screw on it to tighten the probe and the whole RSA-ST2/RSA-T2A/RSA-TT2A. Last, the duct hole should be air-tight after installation.
- •RSA-ST3A/RSA-TT3A housing should be installed vertically on the wall, with the sensor downward. The suitable place should be far away from any heat or cool sources. If needed, there should be a shield to prevent the sensor from direct sun light and rain. Dril I 4 holes on the wall according to the dimensions. Install the base with the 4 screws after removing the front cover.
- •RS-ST4/RSA-ST4A/RSA-TT4A should be installed with the well. The connecting pipe is G1/2 according to the above picture and should be welded onto the installed pipe. Then screw in the well and tighten it to ensure the pressure of piping system. Last, put in the RSA-ST4/RSA-TT4 to the bottom of the well and tighten it.
- Remove the front cover. Install the drain on the base and ensure it is completely air-tighten. Then wire according to the diagram inside the cover. Restore the front cover. Make sure to install the cover completely air-tight with the base (there is a seal ring between the cover and the base) so that the whole housing could meet up to IP65 protection.
- RSA-ST5/RSA-TT5A can be inserted in or strap on the measured objectives.

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. The temperature sensor (RSA-ST2/3/4A) can only be powered less than 100mW@25°C. If exceed, the thermistor/RTD will be damaged.

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.

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-ser



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