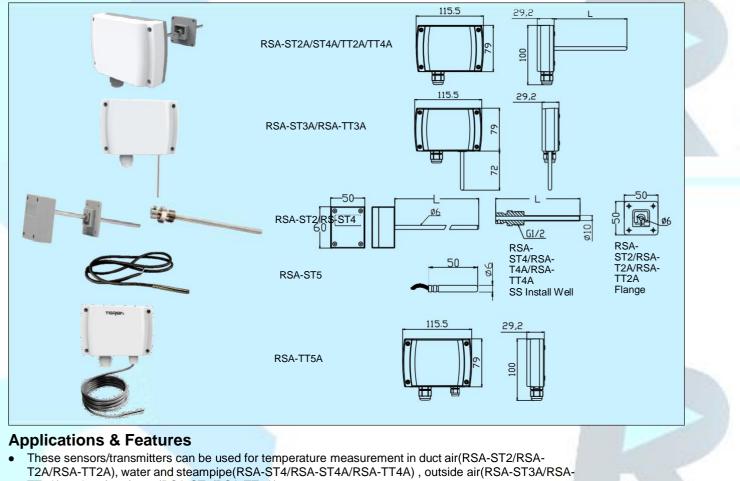
RSA-ST/RSA-TT2, 3, 4A, RSA-ST5, RSA-TT5A Series Temperature Sensor/Transmitter



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, $2^{\circ}0.3$ mm², 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: ≤500Ω (current), ≥3kΩ(0-10VDC), ≥2kΩ(0-5VDC) Total accuracy: ≤±0.5°C @0~50°C, see

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

 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°CHousing:fireproof ABS, SS probe(φ6mm), SS WellProtection:IP65 (IP68 for T5/TT5N probe, 1m water depth)

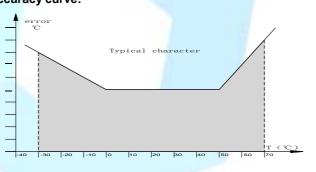


RSA SENSORES, CONTROLES, VALVULAS, ATUADORES, EQUIPAMENTOS, HVAC E AUTOMAÇÃO - Avenida Ragueb Chohfi, 960 - Torre 3, Sala 73 - Jardim Três Marias, São Paulo-SP, Cep: 08375-000 Telefone Sac: 55 11 2031 6658 – WHATSAPP 11 979936574 Email: contato@rsa-sensors.com.br Site: http://www.rsa-sensors.com.br

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

Accuracy curve:





Models

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

	RSA-ST2/ST2A	~		Duct mount temperature sensor	
Model	RSA-ST3A			Outside air temperature sensor	
	RSA-ST4/RSA-ST4A			Immersion temperature sensor	
	RSA-ST5			Cable temperature sensor	
		3		PT1000, ±0.2°C@25°C	
		4		PT100, ±0.2°C@25°C	
Thermis		5		NTC20K, ±0.4°C@25°C	
tor		6		Ni 1000, ±0.4°C@25°C	
or RTD*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7		NTC10K-II, ±0.4°C@25°C	
		9		NTC10K-III, ±0.4°C@25°C	
		А		NTC10K-A, ±0.4°C@25°C	
Longth (DCA			0	75mm	
Length (RSA- ST2/RSA-			1	125mm	
ST2/RSA- ST2A/RSA-ST4/			2	200mm	
RSAST4A)			7	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.



Model

Probe

Length

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

0

1

2

75mm

125mm

200mm

Stainless Steel Well

RSA-

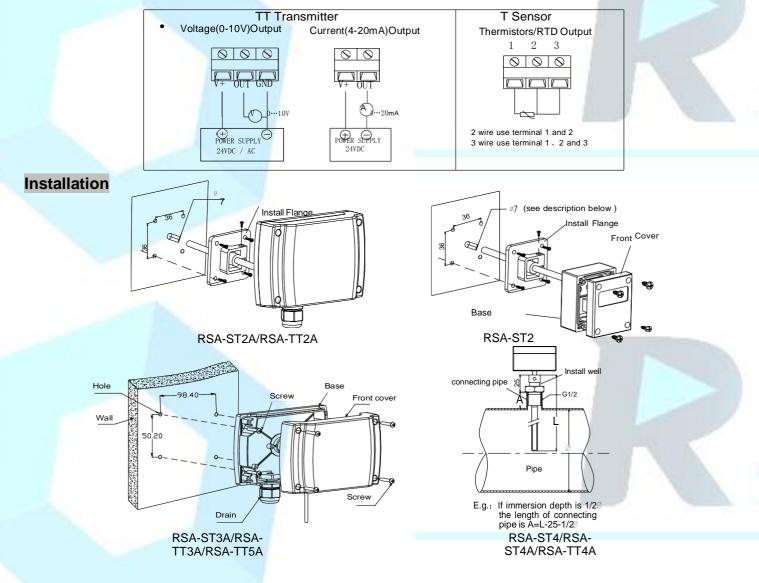
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-					_						
	RSA-TT2/3/4/5A series temperature transmitter										
		RSA- TT2A				Duct mount temperature transmitter					
	Model	RSA- TT3A				Outside air temperature transmitter					
		RSA- TT4A				Immersion temperature transmitter					
		RSA- TT5A				Remote temperature transmitter					
	Output		1 2 E			0~10V 4-20mA(2 wires) 0~5V					
	Range	2		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					

*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.

Connection

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



• 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.



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