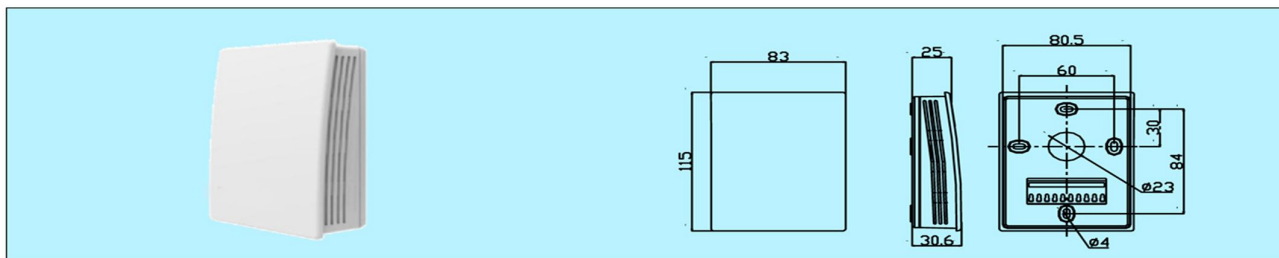


RSA-ST/RSA-TT1A Room Temperature Sensor/Transmitter



Applications & Features

- Apply for indoor environment temperature measurement
- High performance thermistor & RTD, ensure accurate temperature measurement
- Multiple output optional, light and state of art housing, easy installation
- Over voltage and reverse polarity protection, high reliability and anti-interference capability
- Wide temperature range and fast response
- All electrical terminals are on the inside bottom, avoid any possible damage to PCB when wiring

Specifications

RSA-TT1A 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.: -30~70°C, 0-95%RH(Non condensing)

RSA-TT1A series temperature transmitter Sensor:

PT1000, Class A

Range: see models

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

Output Load: ≤500Ω (current), ≥3KΩ (voltage) **Accuracy:** < ±0.5°C@ 0-50°C, see accuracy curve **Power:** Current 18.5-35VDC (RL=500Ω); 8.5-35VDC (RL=0Ω)

voltage 16-35VDC, 16-28VAC **Work Temp.:** 0-70°C,

0-95%RH (Non cond.) **Storage Temperature:** -30-70°C

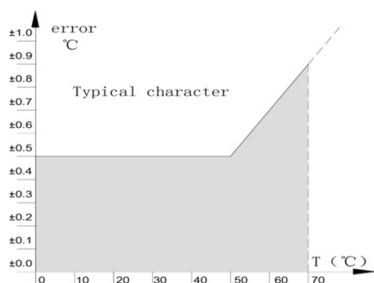
Housing: ABS+PC

Protection: IP30

Weight: RSA-ST1A: 96g; RSA-TT1A: 116g

Approval: CE

RSA-TT1A accuracy curve:



Resistance table:

T	3	4	5	6	7	9	A
(°C)	PT1000	PT100	NTC20K	Ni1000	NTC10K-II	NTC10K-III	NTC10K-A
-40	842.71	84.27	806,400	830.84	348,400	215,971	206,100
-35	862.46	86.25	572,574	851.15	249,091	163,030	164,400
-30	882.22	88.22	411,157	871.69	180,486	125,166	118,400
-25	901.91	90.19	298,444	892.47	132,380	97,072	91,000
-20	921.6	92.16	218,874	913.48	98,190	75,735	70,580
-15	941.23	94.12	162,111	934.74	73,594	59,311	55,240
-10	960.86	96.09	121,208	956.24	55,699	46,585	43,560
-5	980.43	98.04	91,451	977.99	42,544	36,704	34,580
0	1,000.00	100.00	69,600	1,000.00	32,780	28,591	27,630
5	1,019.51	101.95	53,413	1,022.26	25,466	22,878	22,170
10	1,039.03	103.90	41,318	1,044.79	19,940	18,368	17,970
15	1,058.48	105.85	32,208	1,067.59	15,730	14,910	14,690
20	1,077.94	107.79	25,291	1,090.65	12,499	12,169	12,080
25	1,097.33	109.73	20,000	1,113.99	10,000	10,000	10,000
30	1,116.73	111.67	15,923	1,137.62	8,053.48	8,327.70	8,319.00
35	1,136.07	113.61	12,759	1,161.52	6,526.99	6,894.80	6,952.00
40	1,155.41	115.54	10,288	1,185.71	5,322.03	5,711.90	5,834.00
45	1,174.69	117.47	8,345.11	1,210.20	4,364.90	4,740.90	4,917.00
50	1,193.97	119.40	6,808.00	1,234.98	3,600.00	3,924.90	4,160.00
55	1,213.20	121.32	5,584.67	1,260.06	2,985.16	3,289.00	3,533.00
60	1,232.42	123.24	4,605.46	1,285.44	2,488.17	2,765.10	3,013.00
65	1,251.59	125.16	3,817.30	1,311.14	2,027.67	2,330.30	2,579.00
70	1,270.75	127.08	3,179.52	1,337.14	1,703.79	1,967.40	2,217.00
75	1,289.86	128.99	2,660.78	1,363.47	1,438.30	1,676.30	1,914.00
80	1,308.97	130.90	2,236.75	1,390.12	1,219.62	1,424.40	1,659.00
85	1,328.02	132.80	1,888.50	1,417.09	1,038.63	1,216.00	1,451.00
90	1,347.07	134.71	1,601.16	1,444.39	888.16	1,043.30	1,265.00
95	1,366.06	136.61	1,363.02	1,472.03	762.51	899.90	1,111.00
100	1,385.06	138.51	1,164.82	1,500.00	657.14	774.90	978.80

Models

RSA-ST1A series wall mount temp. sensor

Model	RSA-TT1A	Room Temp. sensor
Thermistor or RTD*	3	PT1000, ±0.2°C @25°C
	4	PT100, ±0.2°C @25°C
	5	NTC20K, ±0.4°C @25°C
	6	Ni 1000, ±0.4°C @25°C
	7	NTC10K-II, ±0.4°C @25°C
	9	NTC10K-III, ±0.4°C @25°C
	A	NTC10K-A, ±0.4°C @25°C

See resistance table.

RSA-TT1A series wall mount temp. transmitter

Model	RSA-T1A	Room Temp. transmitter
Output	1	0-10VDC
	2	4-20mA (2 wires)
Range	1	0-50°C
	2	0-100°C