

CLS-RT Room Temperature Sensor

Applications & Features

- Apply for indoor air Temperature measurement
- High performance 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

Sensor: RTD

Range: -20~70°C

Output: PT1000/ NTC10K-II

Accuracy: PT1000, $\pm 0.2^{\circ}\text{C}@25^{\circ}\text{C}$, NTC10K-II, $\pm 0.3^{\circ}\text{C}@25^{\circ}\text{C}$

Work Temp.: -20~70°C

5~95%RH (Non condensing)

Storage Temperature: -20~80°C

Housing: fire retardant PC(UL94V-0),

Protection: IP30

Weight: 95g

Approval: CE

Resistance table

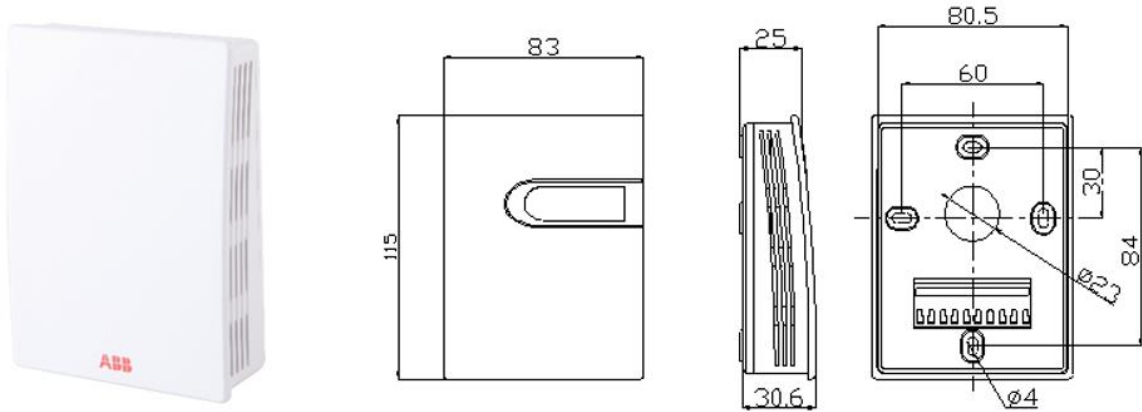
T (°C)	RTD Type1	RTD Type2
	PT1000 (Ω)	NTC10K-II (Ω)
-40	842.71	325,931
-35	862.46	236,365
-30	882.22	173,161
-25	901.91	128,108
-20	921.6	95,674
-15	941.23	72,102
-10	960.86	54,814
-5	980.43	42,022
0	1,000.00	32,477
5	1,019.51	25,295
10	1,039.03	19,848
15	1,058.48	15,687
20	1,077.94	12,483
25	1,097.33	10,000
30	1,116.73	8,062
35	1,136.07	6,539
40	1,155.41	5,335
45	1,174.69	4,378
50	1,193.97	3,611
55	1,213.20	2,995
60	1,232.42	2,496
65	1,251.59	2,090
70	1,270.75	1,758
75	1,289.86	1,486

80	1,308.97	1,261
85	1,328.02	1,075
90	1,347.07	920
95	1,366.06	790
100	1,385.06	681

Selection table

ABB series	Description
CLS-RT-1	Room Temperature Sensor,PT1000,IP30
CLS-RT-2	Room Temperature Sensor,NTC10K-II,IP30

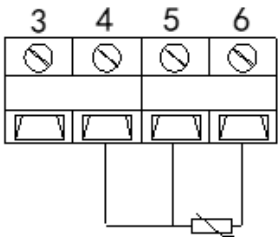
Appearance & size



Connection

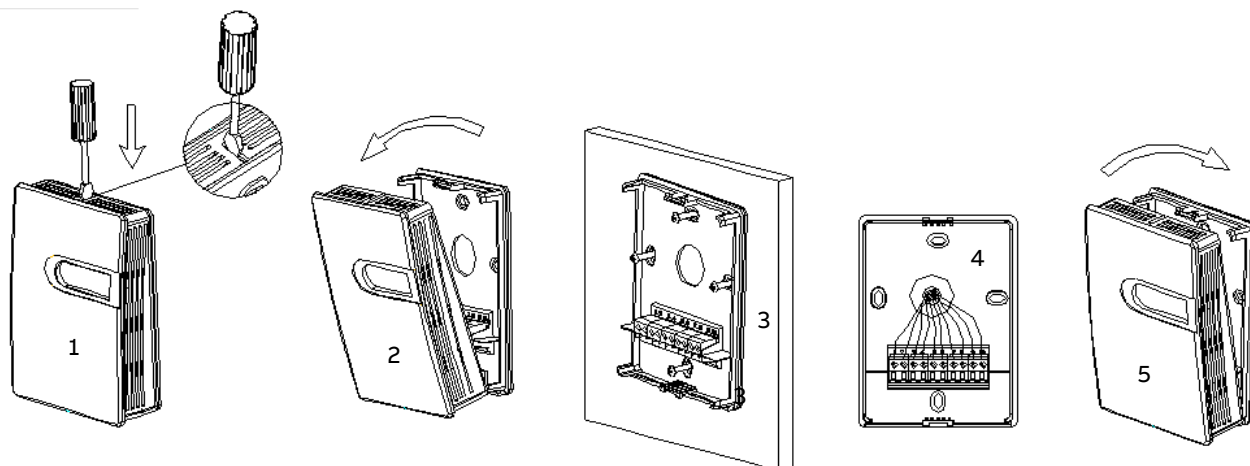
T Sensor

RTD/Thermistor Output :



2 wires use terminal 5 and 6
3 wires use terminal 4,5 and 6

Installation and description



- 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. Then 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 induce serious damages.

Maintenance

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Scan the QR code to go ABB official web page and get more product info



Warning! Installation by person with electrotechnical expertise only.

Warnung! Installation nur durch elektrotechnische Fachkraft.

Avvertenza! Fare installare solo da un elettricista qualificato.

Avertissement! Installation uniquement par des personnes qualifiées en électrotechnique.

¡Advertencia! La instalación deberá ser realizada únicamente por electricistas especializados.