

CLS-RTH Room Temperature & Humidity Transmitter

Applications & Features

- Apply for indoor air T/RH measurement
- Good performance digital sensor & circuit.
- The sensor is 100% field changeable without re-calibration
- Good long term stability, reliability and fast response
- State of art housing. All electrical terminals are on the inside bottom, avoid any possible destroy to PCB when wiring
- Multiple outputs optional, over voltage and reverse polarity protection, and good anti-interference capability

Specifications

Relative Humidity

Sensor: Digital polymer
Range: 0~100%RH
Output: 0-10VDC(3 wires), 4-20mA(2 wires)
Accuracy: ±3%@25°C & 20~80%RH
Hysteresis: <±1%RH
Response time: <10s (25°C, in slow air)
Drift: <±0.5%RH / year

Temperature

Sensor: RTD
Range: -20~70°C
Output: PT1000/ NTC10K-II
Accuracy: PT1000, ±0.2°C@25°C, NTC10K-II, ±0.4°C@25°C

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

Voltage: 16~28VAC/ 16~35VDC

Output Load: ≤500Ω (current), ≥2KΩ (voltage)

Work Temp.: -20~70°C

5~95%RH (Non condensing)

Storage Temperature: -20~80°C

Housing: fire retardant PC(UL94V-0),

Protection: IP30

Weight: 110g

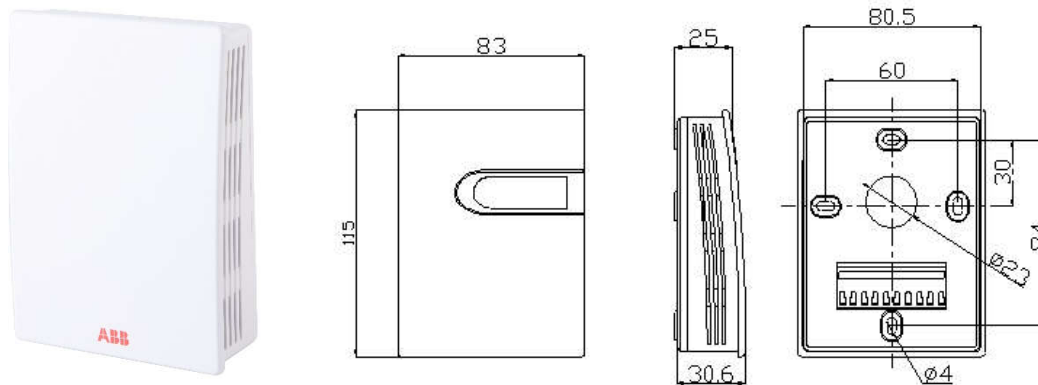
Approval: CE

Selection table

ABB series	Description
CLS-RTH-3V100	Room Temperature & Humidity Transmitter,PT1000,0~10V,±3%RH,IP30
CLS-RTH-3A100	Room Temperature & Humidity Transmitter,PT1000,4~20mA,±3%RH,IP30
CLS-RTH-3V200	Room Temperature & Humidity Transmitter,NTC10K-II,0~10V,±3%RH,IP30
CLS-RTH-3A200	Room Temperature & Humidity Transmitter,NTC10K-II,4~20mA,±3%RH,IP30

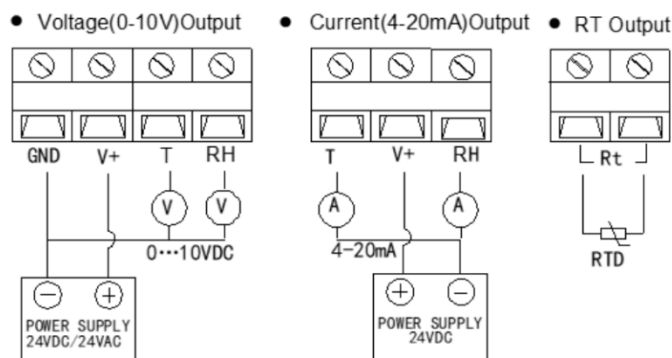
*Current 4-20mA Output: terminal RH loop should be connected, otherwise the transmitter can not work.

Appearance & size

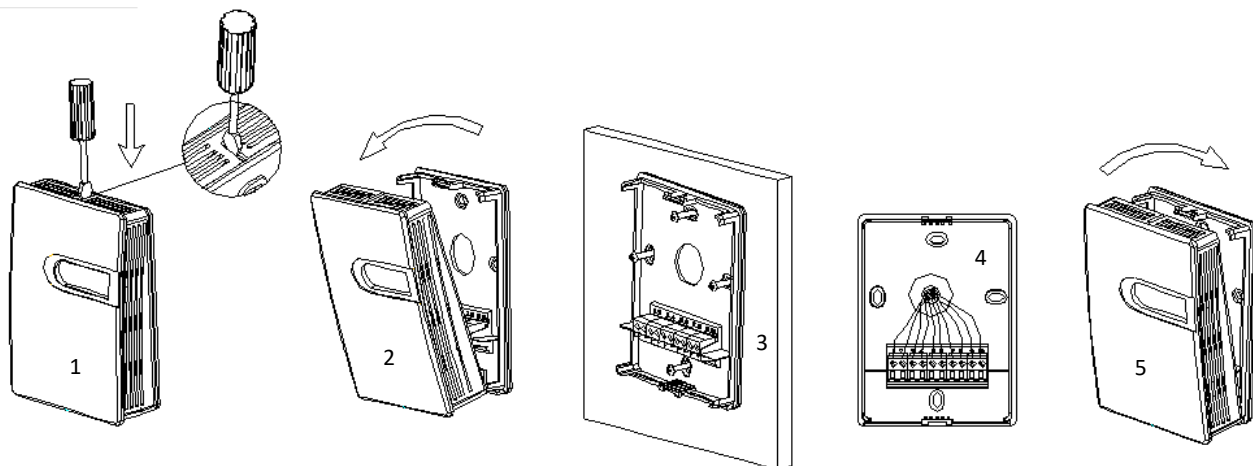


Connection

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



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.
- 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.