

CRH-RW-24V HUMIDITY- AND TEMPERATURE SENSOR

for room installation



CHARACTERISTICS

- Humidity sensor 0-100% RH
- Temperature sensor 0-50°C
- Extremely low power consumption
- 24V AC/DC supply voltage
- 2 x 0-10V DC outputs

FUNCTION

CRH has a factory calibrated CMOS humidity and temperature sensor element with I2C communication and low power consumption. It has high accuracy and excellent long-term stability. CRH has extremely low power consumption providing very low self-heating, a prerequisite for high measurement accuracy of relative humidity.

USE

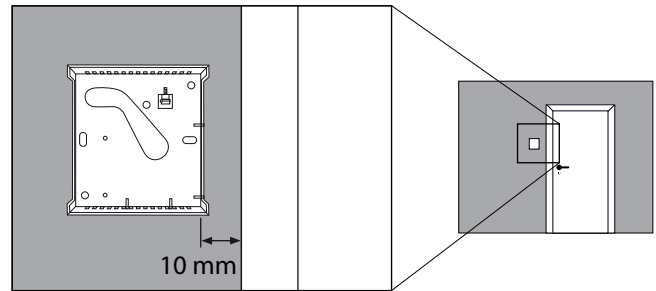
CRH is used for controlling the humidity and temperature of indoor environments.

MOUNTING

CRH is wall-mounted indoors and is large enough to cover an electrical box.

Install CRH away from direct sunlight and draft from ventilation, doors and windows. When mounted on an electrical box or conduit it should be sealed to avoid draft that could affect its accuracy.

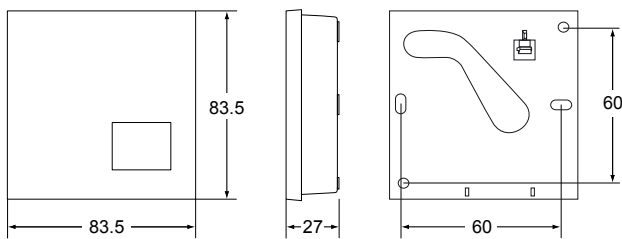
Fit the CRH with the grids top and bottom to permit the flow of air. Place the sensor a minimum of 10mm from a doorframe or a wall to allow easy access to the cover.



TECHNICAL DATA

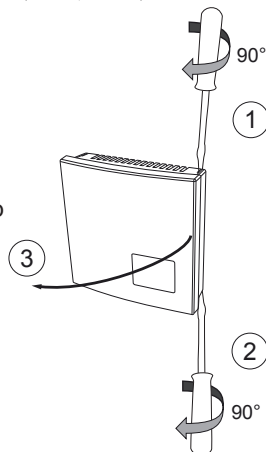
Supply voltage:	24V AC/DC $\pm 10\%$
Power consumption:	3 mA
Analogue outputs: (minimum input impedance 10 kΩ)	
0-10V DC:	Atmospheric humidity 0-100% RH
0-10V DC:	Temperature 0-50°C
RH accuracy:	
0-80% RH:	Normal $\pm 2\%$
80-100% RH:	Normal $\pm 3\%$
Temperature accuracy:	Normal $\pm 0,3^\circ\text{C}$
Ambient temperature:	0-50°C
Housing material:	ABS
Weight:	62 g
Protection class:	IP20

DIMENSIONS (mm)



OPEN THE LID

The lid that has one snap-on / off function is easily removed with help of a screwdriver.



CRH has a cable inlet at the rear for connecting to an electrical box or conduit.

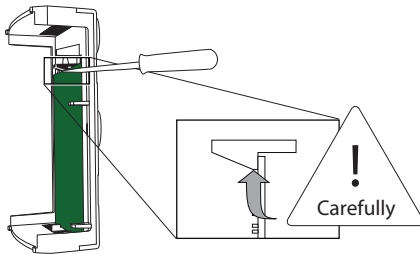
With surface-mounted connection cable, there are spacers on the back of the enclosure that create a gap of approx. 1mm between the wall and the box through which to thread surface connection wires. Wires that are thicker than 1mm can be threaded through the grid. Part of the grid can be removed if a larger hole is required.

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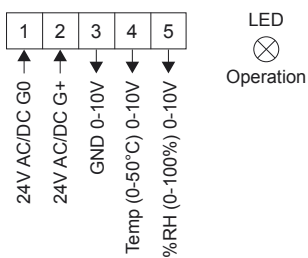


REMOVING THE CIRCUIT BOARD

Loosen the sensor's circuit board by gently raising the locking clip.



WIRING DIAGRAM



MAINTENANCE

CRH is maintenance-free.

ORDERING EXAMPLE

Item code	Description
CRH-RW-24V	Humidity- and temperature sensor, room, white, 24V