

# Sensor CO<sub>2</sub> 1W-UNI

Temperature, relative humidity and CO<sub>2</sub> sensor



Temperature – °C

This unique sensor protects comfortable conditions in working and living environments. Different combinations of values for every home, office, or public installation.



Relative Humidity - %RH

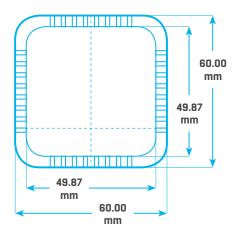


Carbon dioxide - ppm



### Sensor CO<sub>2</sub> 1W-UNI

Combined Temperature, Relative Humidity and  $CO_2$  sensor in one box. Connected via RJ11 interface (1-Wire UNI bus) with most of the HW group monitoring devices.





#### The sensor can be connected to:



Air quality levels	
Less than 500 ppm	Excellent
500-800 ppm	Very good
800-1200 ppm	Good
1200-1500 ppm	Bad
More than 1500 ppm	Unhealthy

#### **Technical specifications**

• Communication interface:
1-Wire UNI (RI11)

ullet Sensor values (quantities): 3

Maximum distance from active

**1-Wire port:** 30 m

• Power: 5V from RJ11 port

• Power limitation: max. 1 sensor

per active RJ11 port

• Sensor dimensions: 60×60×20 mm

• Protection: IP30



#### **Temperature**

Range: 0-50°C
Accuracy: 0.8°C
Resolution: 0.1°C



• Range: 300 – 40 000 ppm • Accuracy: 50 ppm +3 %

Resolution: 1ppm (0 – 2000 ppm)
Temperature stability: 2.5 ppm / °C



#### **Relative Humidity**

• Range: 0-95%RH • Accuracy: 5%RH (20-80%RH/25°C)

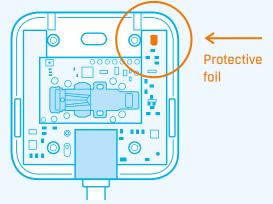
• Resolution: 0.3%RH

#### Installation and use

Housed in an elegant plastic box, it can be mounted on a wall or a ceiling or placed on a desk (use double-sided adhesive tape).

- 1. Open the box & remove the protective foil from the humidity sensing chip.
- 2. Connect the sensor to any HW group monitoring device (RJ11 cable included).
- 3. Switch on device power & sersch for the sensors.
- 4. Temperature and humidity values are available immediately.
- 5. Internal CO<sub>2</sub> sensor needs to be first calibrated in the environment. The calibration takes 7 days; during this time, it is necessary to air the premises regularly and thoroughly, at least 3 times a day.

# Before first use



Remove the lid and remove the protective foil from the humidity sensing chip.

## Versions and related products

Compatibility: Ares, NB 2x1-Wire, Poseidon2, SD 2x1-Wire, STE2 r2















Temp HomeBox

HTemp HomeBox

Sensor CO<sub>2</sub> 1W-UNI

Sensor THPVoc 1W-UNI

Sensor name	Temperature	Relative Humidity	Atmospheric pressure	VOC	CO <sub>2</sub>	Sensor values
Temp HomeBox	<b>~</b>	×	×	×	×	1
HTemp HomeBox	<b>~</b>	~	×	×	×	2
Sensor CO <sub>2</sub> 1W-UNI	<b>~</b>	~	×	×	<b>*</b>	3
Sensor THPVoc 1W-UNI	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	×	4