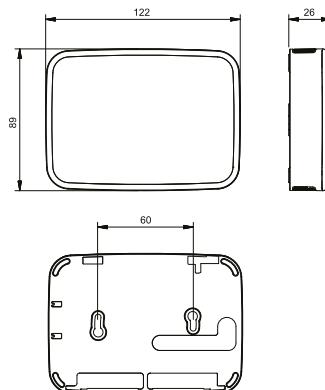


AIRSENS

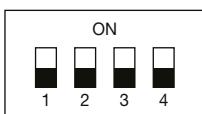
A small orange square icon containing the letters "ND" above "IR".



## IAQ (air quality) level indication

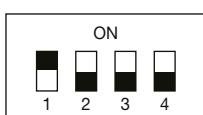
Intelligent independent spatial sensors of carbon dioxide CO<sub>2</sub>, free organic compounds VOC, relative humidity RH and temperature TEMP. CO<sub>2</sub>, VOC and RH sensors enable temperature measurement at the same time (only via Modbus).

These sensors are specially developed for controlling DCV systems and intelligent ventilation systems and intended for use in offices, classrooms, shopping centers, restaurants, homes, fitness centers and other commercial and non-commercial

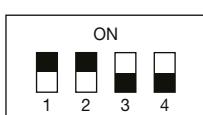


**MODE 1: relay + Modbus (read)**  
relay switching setting by potentiometer  
P1

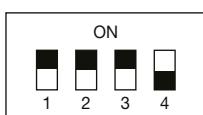
**Status indication**  
green – lower than the set value  
red – higher than the set value



**MODE 2: 0-10V + Modbus (read)**  
adjustment of the measuring range  
using the angle  $\alpha$  by potentiometer  
P1



**MODE 3: 2-10V + Modbus (read)**  
adjustment of the measuring range  
using the angle  $\alpha$  by potentiometer



**MODE 4: Modbus control**  
access to all operating modes and parameters via the Modbus protocol (see user manual). There must be a position for AIRSENS-TEMP 5 and 6 in the ON position.

objects. Protection IP30.

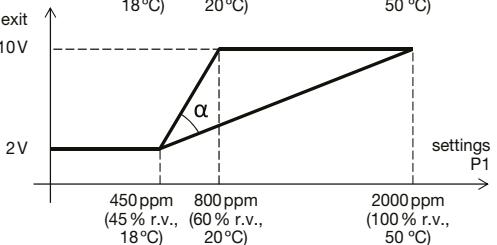
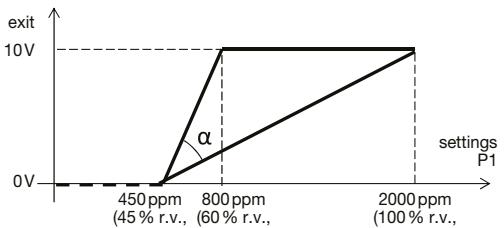
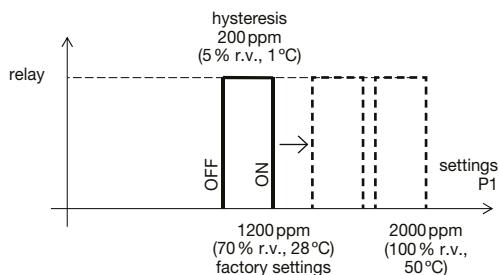
- easy installation, wall mount
  - they do not require maintenance during operation
  - long-term durability and stability

Operation is possible in 4 modes:

- switching output relay and Modbus (reading)
  - 0-10V output and Modbus (read)
  - 2-10V output and Modbus (read)
  - Modbus full control

Intelligent CO<sub>2</sub>, VOC, RH and TEMP sensors enable:

- work point setting
  - indication of the IAQ level (air quality) with three colored LED lights located on the bottom of the sensor
    - green – good
    - orange – deteriorated
    - red – bad



<b>AIRSENS</b>	
power supply range tension	100V–240V AC
max. current	0.01 A
average consumption	0.7W
exit (max current 5mA)	0–10V DC 2–10V DC
relay – max. switching voltage	250V AC
relay – max. switching current	3A
ambient temperature	0–50°C
environmental humidity without condensation	10–95 %
life expectancy	min. 10 years
degree of pollution	2
protection	class II
dimensions	122 × 89 × 26 mm
mass	150g

<b>AIRSENS-CO<sub>2</sub></b>	
CO <sub>2</sub> measuring range and measurement accuracy	450–2000 ppm ± 50 ppm
CO <sub>2</sub> relay hysteresis	200 ppm
T measuring range	-10 until +50°C
T measurement accuracy	± 0,3°C

<b>AIRSENS-VOC</b>	
VOC measuring range	450–2000 ppm (CO <sub>2</sub> equivalent)
VOC measurement accuracy	± 100 ppm
T measuring range	-10 until +50°C
T measurement accuracy	± 0,3°C

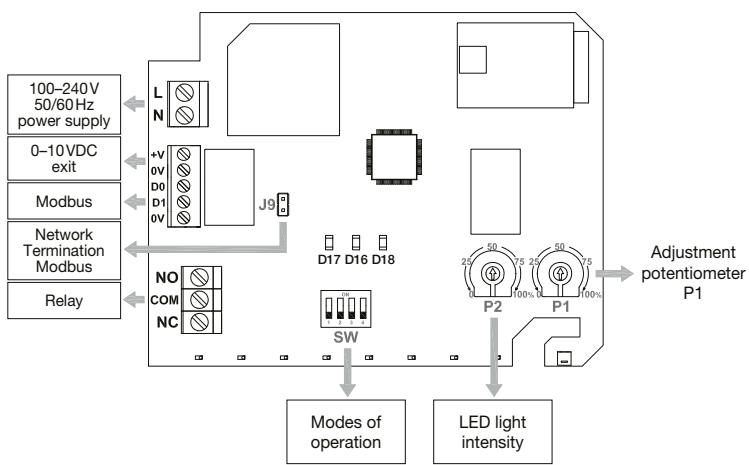
  

<b>AIRSENS-RH</b>	
RH measuring range	0–100 % RV
RH measurement accuracy	± 2 % RV
T measuring range	-10 until +50°C
T measurement accuracy	± 0,3°C

<b>AIRSENS-TEMP</b>	
tempering time	30 seconds (15 minutes for stabilization of the first temperature measurement after connecting the power supply)
T measuring range	0 until +50°C
T measurement accuracy	± 0,4°C

### Supplementary image



Also available  
wireless design  
**AIRSENS-RF**  
more information at  
[www.elektrodesign.cz](http://www.elektrodesign.cz)

