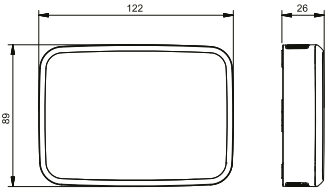
AIRSENS-WIFI



ND IR

IR method
CO2

Connectair®

www.connectairapp.com

Intelligent stand-alone room sensors of carbon dioxide CO2, free organic compounds VOC, relative humidity RH and combined sensor IAQ. Each sensor simultaneously enables monitoring of temperature and relative humidity (RH), continuous values are clearly displayed graphically in the Connectair® S&P platform. Specially developed for controlling DCV systems and intelligent ventilation systems. They are suitable for use in offices, classrooms, shopping centers, restaurants, homes, fitness centers and other commercial facilities. Protection IP30. Thanks to the integrated WiFi antenna (2.4 GHz), the sensors are easily connected to the home network, after which it is possible to monitor the quality of the indoor environment using the S&P Connectair® digital platform from anywhere.

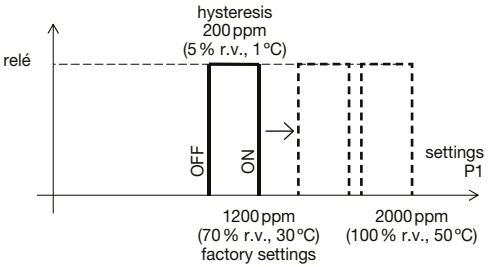
- easy installation, wall mount
- they do not require maintenance during operation
- long-term durability and stability
- Connectair® remote management from anywhere using a mobile phone, tablet, laptop, etc.
- control of HVAC systems using a switching relay or analog input 0–10 V

Operation is possible in 4 modes:
- switching relay 3 A / 230 V Connectair® (reading)
- analog output 0–10 V Connectair® (reading)
- analog output 2–10 V Connectair® (reading)
- Connectair® full control

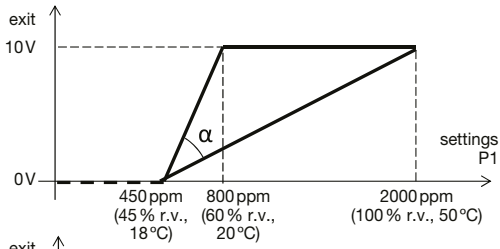
AIRSENS-WIFI intelligent sensors enable:
- setting the working point
- indication of the IAQ level (air quality) with three colored LED lights located on the bottom of the sensor with the possibility of setting the lighting intensity (OFF – 100 %)
  - green – good quality
  - orange – degraded quality
  - red – poor quality
- indication of WIFI connection status using four diodes on the WiFi antenna

Mode 1: Relay + Connectair (Reading)
relay switching setting by potentiometer P1

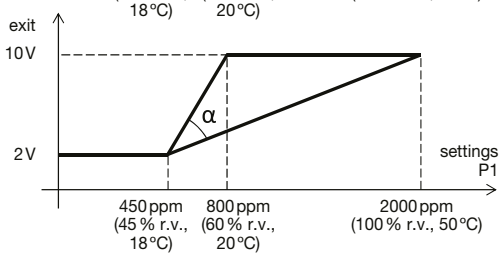
Status indication
green – lower than the set value
red – higher than the set value

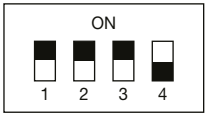


Mode 2: 0–10 V + Connectair (reading)
adjustment of the measuring range using the angle α by potentiometer P1



Mode 3: 2–10 V + Connectair (read)
adjustment of the measuring range using the angle α by potentiometer P1





Mode 4: Connectair control
access to all operating modes and parameters via the Connectair platform (see user manual)

AIRSENS-WIFI

AIRSENS-WIFI	
power supply range tension	100 V–240 V AC
max. current	0.01 A
average consumption	0.7 W
exit (max current 5 mA)	0–10 V DC 2–10 V DC
relay – max. switching voltage	250 V AC
relay – max. switching current	3 A
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	150 g

CO2*	
measuring range	450–2000 ppm
measurement accuracy	± 50 ppm
temperance period	1 minute

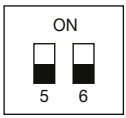
VOC*	
measuring range	450–2000 ppm (CO_2 equivalent)
measurement accuracy	± 100 ppm
temperance period	5 minutes (relative reference)

RH*	
measuring range	45–100 %
measurement accuracy	±2 %
temperance period	30 seconds

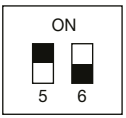
TEMP**	
measuring range	18–50 °C
measurement accuracy	± 0.4 °C
temperance period	30 seconds

* values for individual sensors and combined IAQ sensor
** values for combined IAQ sensor

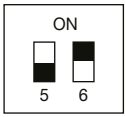
Configuration of the analog output of the IAQ combined sensor



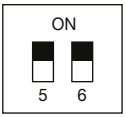
version CO2
(factory settings)



version VOC

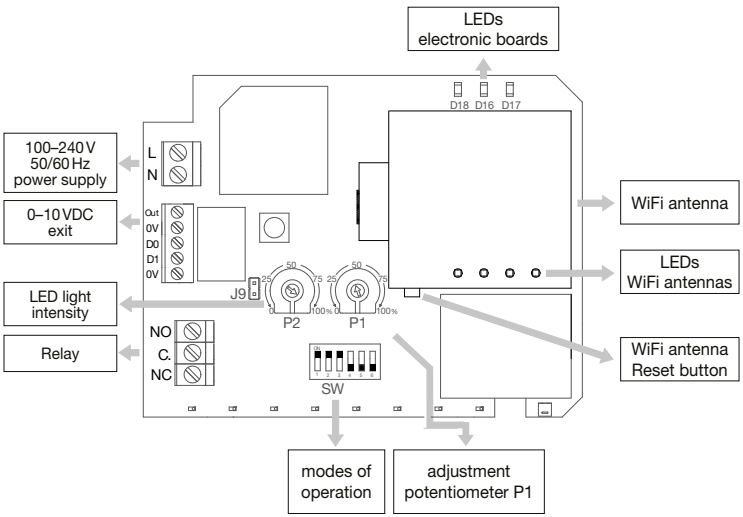


version RH
(relative humidity)



version TEMP
(temperature)

Supplementary image



IAQ (air quality) level indication