AIRSENS-RF

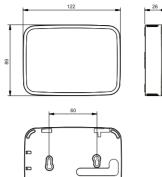


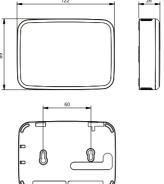


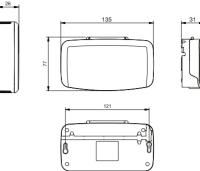
IR method CO2

Intelligent wireless stand-alone room sensors for carbon dioxide CO2, free organic compounds VOC, relative humidity RH and temperature TEMP. CO2, VOC and RH sensors allow simultaneous temperature measurement (Modbus only), RF version - wireless high frequency communication between sensor and receiver AIRSENS-RF-REC. Each receiver can receive up to 4 signals simultaneously so that indoor air quality in different rooms can be monitored. Specially developed for the control of DCV systems and intelligent ventilation systems. They are suitable for use in offices, classrooms, shopping malls, restaurants, apartments, fitness centers and other commercial buildings. Protection class IP30.

- · Easy to install, wall mounted
- · Maintenance-free during operation
- · Long-term durability and stability







AIRSENS-RF-REC receiver

Operation is possible in 4 modes:

- Relay switching output and Modbus (read)
- 0-10 V output and Modbus (read)
- 2-10 V output and Modbus (read)
- · Full Modbus control

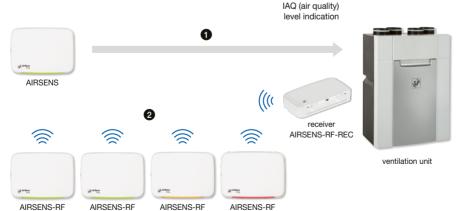
Activation of intelligent CO2, VOC, RH and TEMP sensors:

- · Operating point setting.
- · Indication of IAQ (air quality) level via three colored LEDs on the bottom of the sensor.

Green - good orange - deteriorated red - poor



AIRSENS-RF-REC	
supply voltage range	100 V-240 V AC
max. current	0,01 A
average consumption	0,7 W
output (max current 5 mA)	0-10 V DC 2-10 V DC
relay - max. switching voltage	250 V AC
relay - max. switching current	3A
protection	class II
dimensions	135×77×31 mm
weight	150 g



Communication with the ventilation unit:

- 1 Standard version: cabling between AIRSENS and fan/ventilator unit.
- 2 RF version: wireless communication between AIRSENS-RF and receiver unit AIRSENS-RF-REC



AIRSENS-RF

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output (max current 5 mA)	0-10 V DC 2-10 V DC
relérelay – max. switching voltage	250 V AC
relay – max. switching current	3A
ambient temperature	0-50°C
environmental humidity no condensation	10–95 %
life expectancy	min. 10 years
degree of pollution	2
protection	třída II
dimensions	122×89×26 mm
weight	150 g

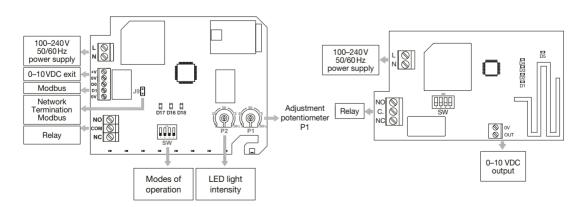
AIRSENS-RF-CO2	
CO ₂ measuring range and measurement accuracy	450–2000 ppm ± 50 ppm
CO ₂ relay hysteresis	200 ppm
T measuring range	-10 until +50°C
T measurement accuracy	± 0,3 °C

AIRSENS-RF-RH	
RH measuring range	0-100 % RV
RH measurement accuracy	±2 % RV
T measuring range	-10 until +50°C
T measurement accuracy	± 0,3°C

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

AIRSENS-RF-TEMP	
tempering time	30 seconds (15 minutes for to stabilize the first temperature measurement after power connection)
T measuring range	0 until +50°C
T measurement accuracy	± 0,4°C

Supplementary image



AIRSENS-RF AIRSENS-RF-REC