

VOCOO⁺

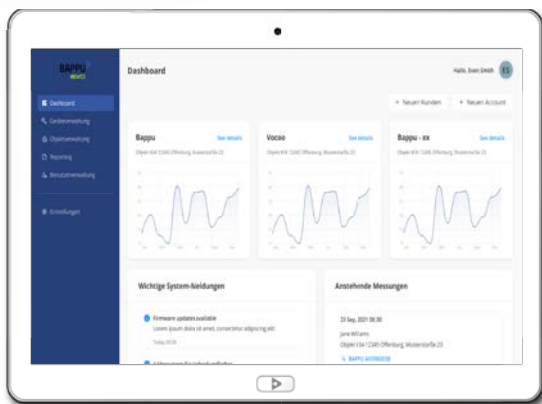
CO₂-IAQ-Monitor

Monitoring indoor ambient air

Technical details:
l=150mm, w=92mm, d=28mm, w= 200 gr.



Always in view; with BAPPUnow



VOCOO⁺ is an IAQ (Indoor Air Quality) sensor for indoor air assessment. CO₂, fine dust, CO, are monitored for their concentration in the indoor air. Additional variables such as air temperature and relative humidity as well as TVOC indicator (volatile organic compounds) complete the assessment.

The highly visible LED traffic light evaluation as well as the display ensure good readability. If the maximum concentrations of CO₂ are exceeded, VOCOO⁺ prompts for ventilation.

Measured variables

- CO₂ (carbon dioxide)
- TVOC indicator
- Particulate matter PM1, PM2.5, PM10
- CO (carbon monoxide)
- Air temperature
- Relative humidity

Features

- 6 measured variables
- Precisely proven measurement technology
- Wifi data interface
- BAPPUnow: modern online application
- CO₂ auto calibration
- Wall mounting kit
- LED traffic light display and acoustic signal

manufactured by



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Technical data sheet for the VOCOO⁺

Measured variables	Measurement range	Tolerance	Transducer	Resolution
Air temperatur	0...40 °C	+/- 1,2 °C	PT 1000 Sensor	0,1 °C
Relative humidity	10...90%	+/- 4% rF	Capacitive humidity sensor	0,1 %
CO ₂ (carbon dioxid)	0...10.000 ppm	+/- 75 ppm +/- 5% v.M.**	Non-dispersive infrared	1 ppm
TVOC* Sensor Indikator (Ausgangssignal)	0...1000 ppm 0...500		metalloxid	1
PM (particulate matter)	PM ₁ : 0...1000 µg/m ³ PM _{2,5} : 0...1000 µg/m ³ PM ₁₀ : 0...1000 µg/m ³	PM ₁ , PM _{2,5} : 0...100 µg/m ³ +/-15 µg/m ³ 101...1000 µg/m ³ +/-15% v.M.** PM ₁₀ : 0...100 µg/m ³ +/-30 µg/m ³ 101...1000 µg/m ³ +/-30% v.M.** bei 0...40 °C; 10...70% rF	optical	0,1 µg/m ³
CO (carbon monoxid)	0...500 ppm	+/- 5 ppm +/- 10% v.M.**	electrochemical	1 ppm

*total volatile organic compounds, **From the measured value | Technical data subject to change.

The IAQ-CO₂ sensor for monitoring indoor ambient air hygiene (IAQ) - VOCOO⁺

The room air monitor continuously monitors office, school or living spaces with regard to these important components of the indoor air. The device requests ventilation by simply lighting up the traffic light colors green, yellow and red. A digital display shows CO₂, particulate matter, TVOC, air temperature, rel. humidity and CO. The concept is supported by an acoustic warning. A modern online application for managing the devices and evaluating the measurement data completes this innovative concept.

In terms of air quality, the ASR 3.6 on particulate matter states:

“In enclosed work rooms, healthy breathing air must be available in sufficient quantities. As a rule, this corresponds to the outdoor air quality.” The guidelines for outdoor air, which are essentially based on the EU guideline 2008/50/EG, must therefore be applied. It defines the limit values for the different particle fractions.”

In terms of air quality, ASR 3.6 on CO₂ states:

„If there is a reasonable suspicion that CO₂ concentrations are too high, measurements should be carried out under normal conditions of use and with the usual number of people, e.g. B. over the period of daily use. The instantaneous value is evaluated.

Before the measurement, the room must be ventilated as is usual for work. In rooms with a floor area of up to 50 m², a measuring point at a height of approx. 1.50 m and at a distance of 1 to 2 m from the walls is usually sufficient. In larger rooms, it may be necessary to set up several measuring points. The measuring point should be in the area where people are staying - but at a sufficient distance from people - in order to avoid the measuring result being directly influenced by the breathing air of people.“ (Source: ASR A3.6 Ventilation)

VOCOO⁺ - „The Guardian of the indoor air quality.“