

AIR GOOD

Item number: 900701



Device for air quality measurement in closed spaces

Overview

AIR GOOD controls the air quality in closed spaces, like rooms, classrooms or offices.

Clean air ideally consists of approx. 21% oxygen (O₂), 78% nitrogen (N₂), 0.03% carbon dioxide and 0.93% noble gases. In closed rooms, however, other components are also contained, such as volatile organic compounds (VOCs), which mainly come from biological sources (e.g. humans) and electric devices.

The integrated air quality sensor records VOCs, relative humidity, barometric air pressure and the ambient temperature. The condition of the indoor air IAQ (Indoor Air Quality) is determined from all this data. The combination of the four measured values allows a better assessment of the room air than the mere CO₂ measurement.

When the limit value is reached, the buzzer sounds and the light lights up red - it must be ventilated. As soon as the air quality has improved again, the traffic light changes to green and shows that the ventilation process can be ended.

Explanation of the display status:

The measured value of the AIR GOOD sensor is recorded in ppm (parts per million), eCO₂ is equivalent to CO₂.

CO ₂	eCO ₂	IAQ	Light color
< 1 000 ppm	< 1 000 ppm	< 100	green
> 1 000 ppm	> 1 000 ppm	> 100	yellow
> 2 000 ppm	> 2 000 ppm	> 200	red + buzzer

AIR GOOD can be installed anywhere in the room using an optional wall bracket. The integrated battery enables operation in any room and at any time without the need for cabling.

The light can be charged using a standard USB

power supply unit with a micro USB cable (5 volts, at least 1.5 amps).

Optional: The AIR GOOD app also shows the room monitoring on the smartphone.

Use cases

Air quality has a massive impact on us humans. In schools and workplaces with good air quality, people are generally healthier, more productive and more productive. Rooms must be ventilated regularly for good air quality.

High VOCs cause health problems such as dizziness, headaches and nausea. At the same time, however, they also show the probability of a high virus concentration in the room air.

The humidity in particular is important for a healthy living environment. Too little humidity leads to dry mucous membranes and irritated eyes. This increases the susceptibility to pathogens and leads to a feeling of tiredness. If the humidity is too high, there is a risk of mold growth, which has a negative impact on human health.

- › **Educational institutions** e.g. school (classroom), kindergarten, college, university
- › **Other institutions** e.g. museum, library
- › **Gastronomy** e.g. restaurants, bars
- › **Hotels** e.g. hotel rooms, lobby
- › **Companies** e.g. offices, open plan offices, conference rooms, workshops
- › **Public institutions** e.g. authorities, churches, club houses
- › **Others** e.g. doctor's practice, hospital, retail trade, retirement home, nursing home

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Technical specifications

Basics

Supply voltage	4,4 - 5,5 VDC USB
Processor	ARM Cortex-M3 48MHz
Dimensions	160 x 80 x 43mm (without wall bracket)
Battery pack	18650, 3,7 V 2,6 Ah
Antennas internal	Bluetooth
Protection class	IP20

Accessories

optional	Micro-USB cable with angled plug
optional	Micro-USB cable with straight plug
optional	USB charger

Interfaces

Power supply	Micro USB, only charging port
BT	Bluetooth 5.1
Voltage measurement	<ul style="list-style-type: none"> › Battery voltage › Supply voltage
Programming	10 pin header, SWD



Fig. Vertical and horizontal mounting

Other properties

Air quality sensor	<ul style="list-style-type: none"> › Air quality IAQ (Indoor Air Quality) / eCO₂ (equivalent calculated carbon dioxide) › Temperature: -40 - 85°C › Air pressure: 300 - 1100 hPa › Humidity: 0 - 100%
LEDs	<ul style="list-style-type: none"> › Green: connection status › Red: charger connected › Red: battery empty › RGB: bad air quality › RGB: moderate air quality › RGB: air quality good
Buzzer	4 kHz
Button	light on/off, BT on/off
Charge controller	1 A charge current



Red: bad, yellow: moderate, green: good