

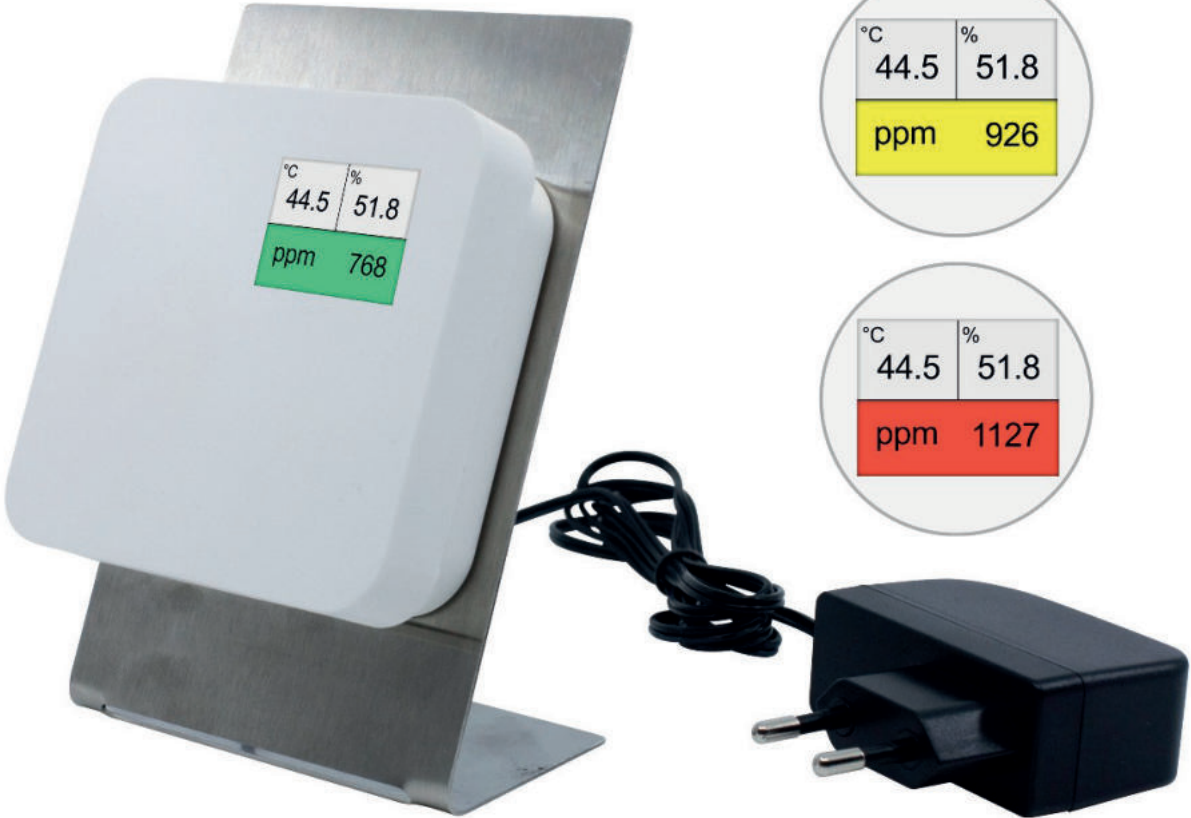
# Air quality monitor with traffic light for measuring CO2, temperature and humidity incl. 12V power supply

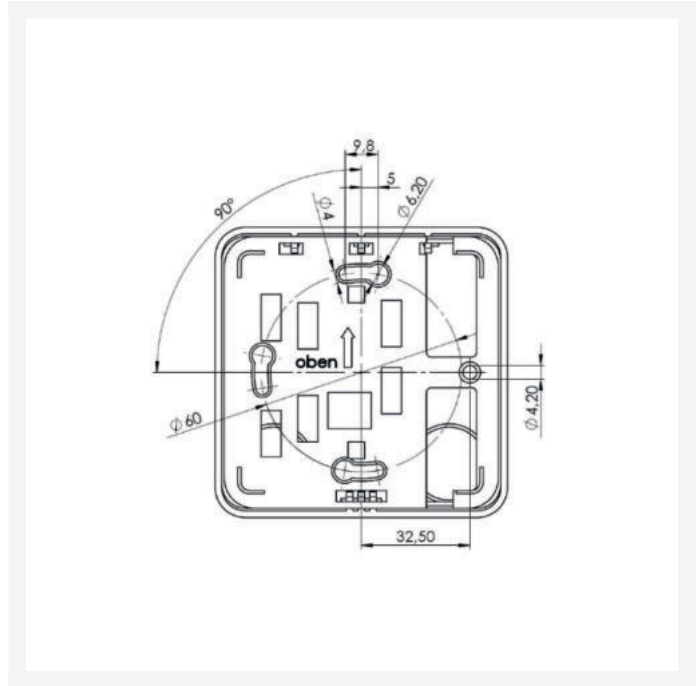
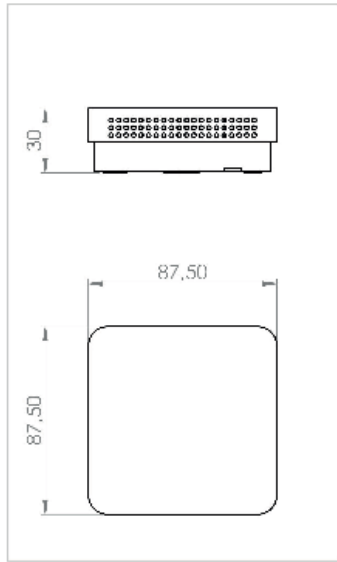
## Product images

°C	%
44.5	51.8
ppm	768

°C	%
44.5	51.8
ppm	926

°C	%
44.5	51.8
ppm	1127





### Air quality monitor CO<sub>2</sub>, temperature and humidity - special model

Our air quality monitor serves as an optical measuring instrument for climate and air monitoring in closed rooms. The multicolored, permanently illuminated display with traffic light function provides a quick overview of the current CO<sub>2</sub> and aerosol concentration in the room air. The displayed traffic light values serve as guide values for ideal ventilation management. This prevents unhygienic or productivity-inhibiting room air is avoided.

To achieve an ideal result, we recommend the use of one air quality monitor per 40 sqm area.

### Meaning of the traffic light function in the display and the recommended measures\*\*:

Green value	< 800ppm	Hygienically harmless - no action required
Yellow value	800...1000ppm	Hygienically suspicious - shock ventilation recommended
Red value	> 1000ppm	Hygienically unacceptable - shock ventilation urgently required

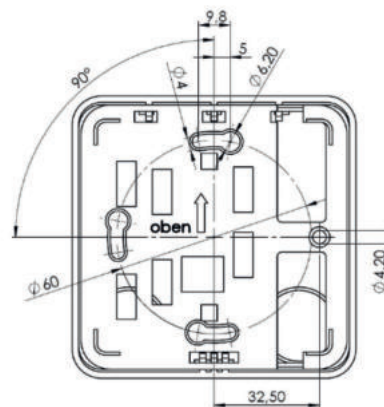
### Mounting types

The measuring device for air quality with CO<sub>2</sub> traffic light function can be used as a table or wall device. The optionally available stainless steel stand allows it to be placed optimally in the room. The correct placement is crucial about the correct measurement results. The mounting location has a decisive effect on the measurement accuracy. Windows (cold outer wall) or near doors (drafts) should be avoided.

### Wall mounting

Use the hanging holes on the back of the housing to mount our air quality sensor on a wall. Please note the following for wall mounting:

- The convection openings must be upwards/downwards in order to ensure to ensure a flow of room air (see marking on (see marking on rear side of housing)
- The air quality monitor should always be placed on the opposite wall of the radiator be mounted
- Drafts, close proximity to windows or doors should be avoided
- doors should be avoided
- Ideal mounting height: 1.5m above the floor
- The sensor should be exposed to fresh air at least once a day, otherwise it will give false readings in the long term



## Table version

Due to the stainless steel stand, our air quality monitor also finds its mobile use or where wall mounting is not possible. Please note the following for table mounting:

- The convection openings must be aligned upwards/downwards in order to guarantee a flow with room air (see marking on rear side of housing).
- Draughts, close proximity to windows, doors or radiators should be avoided.
- Ideal location: max. 3m away from a person with the possibility of air circulation
- The sensor should be exposed to fresh air at least once a day, otherwise it will give false readings in the long term

## Branding/Logo

For OEM customers, a neutral variant or a variant with their own logo can be supplied on request.

## Technical details

Sensor: Type CO2	NDIR with auto calibration Measuring range: 0...2000ppm Tolerance: $\pm 60$ ppm $\pm 2\%$ f.s.
Sensor: Typ r.H./°C	capacitive Measuring range: 0%...100% r.H. Tolerance: 25°C $\pm 2\%$ r.H. (20%...80% r.H.) +2% f.s.
Display traffic light	green: < 800ppm; yellow: 800...1000ppm; red: > 1000ppm
Display	illuminated color and full graphic display
Power supply	12...34V AC/DC
Power consumption	40...80mA
Power supply	12V power supply with EU plug, 1.5m (included in delivery)
Measured variables*	CO2; CO2 and temperature; CO2, temperature and humidity
Acoustic alarm*	optional selectable short acoustic alarm sounds every minute from 1000ppm
Housing	ABS, white RAL 9010 holes for wall mounting available 87,5x87,5x30mm
Stainless steel stand*	optionally selectable as a stand - The LQM is delivered fixed on the stainless steel stand
Operating temperature and conditions	0°C...+50°C; 0%...98% r.H.
Protection class	IP30

\*configurable

\*\*the recommended guide values and measures are based on current research and recommendations

## Areas of application

Offices and seminar rooms

Childcare centers



Schools

Restaurants and bars

## Quick start guide

### Commissioning the device

Place the LQM in a suitable location in the room. For more information, please refer to pages 3 and 4. When using the table mounting with stainless steel stand, bend the lower part of the stand backwards by 45° to ensure a stable and ideal stand of the LQM. Now you can insert the power plug into the socket and the LQM will immediately start measuring.