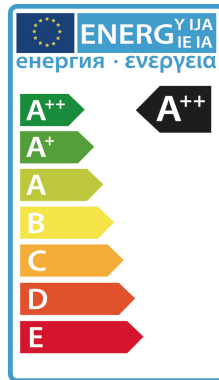
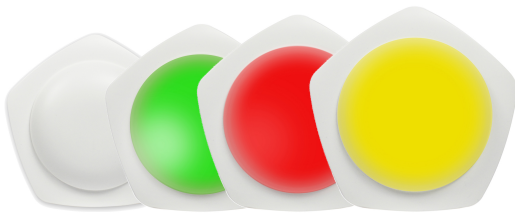


## ALLNET CO2 Room Air Quality Lamp Smart with LAN/WIFI



kwh/1000h:	3,60
Lumens:	280
Watt:	3,6
Nominal Service Life:	10000 Std.
Switching Cycles:	10000
Opt. Ambient Temperature.:	25 °C

### EAN CODE



### CO<sub>2</sub> Room Air Quality Lamp/traffic light for infection control ventilation in schools

The universal network signal lamp with integrated NDIR-CO<sub>2</sub> sensor comes in an attractive plastic housing. The lamp is supplied with the required energy by an environmentally friendly plug-in power supply unit or via PoE (power supply via a single network cable with data and power). The ALLNET PoE lamp is equipped with a high quality industrial multisensor which offers a high CO<sub>2</sub> measuring range of 0~40000ppm. In the ideal range (25°C, 400 - 10'000 ppm) it offers an accuracy of ± (30 ppm). The signal lamp automatically converts the measured variables into an optical standard signal, which can be directly displayed visually in the respective color via the integrated LEDs.

The room air traffic light serves as a reference value transmitter for room ventilation for infection protection-compliant ventilation in daycare centers/kindergartens, large daycare centers, therapeutic daycare centers, offices, fitness studios, hotels, retirement homes/nursing homes, waiting rooms, retail stores, clubhouses, public authorities and institutions, churches or other prayer rooms and, of course, schools.

This enables energy-saving and demand-based room ventilation, thus reducing operating costs and increasing the well-being of people in the premises.

In general, it is recommended that ventilation should be used above a concentration of 1000 ppm CO<sub>2</sub> in the indoor air (level yellow), but above 2000 ppm (level red) ventilation is required to ensure adequate indoor air quality. For the school area, a threshold value of 1000 ppm is considered authoritative. The aforementioned threshold values refer in each case to the instantaneous value. If the CO<sub>2</sub> concentration rises above this specified value, a ventilation measure - manual ventilation via windows or automatic activation of a room ventilation system - should ideally be taken. If the CO<sub>2</sub> content is below the critical threshold, it can be assumed that the virus



concentration in the air is also reduced.

The alarm is triggered by a visual display and can be optionally implemented acoustically or via e-mail, FTP or upload to the cloud.

Presets (can be modified in embedded software):

- at 0~999 ppm: level green
- at 1000~1999 ppm: level yellow
- at 2000~10000 ppm: level red

The advantage of ALL-PoE-CO<sub>2</sub> lamp over other CO<sub>2</sub> lamps currently on the market is that the ALLNET version has an intelligent/smart signal lamp with its own integrated web interface, through which even more options can be used.

Added value of the ALLNET solution compared to similar solutions

- If you change the guideline values, such as new specifications from the Federal Environment Agency, the ALLNET version can always be flexibly adapted to the new standard via the web interface.
- All lamps can be visualized via the integrated web interface. Via the cloud, the values can also be followed by the parents of the class.
- In the ALLNET version you can also configure a recording of the values and export them as CSV/XLS data.
- In the ALLNET version you can configure a rule in case of exceeding/falling below etc. which will send the values by email.
- In the ALLNET version is also a buzzer built in which can be used for optional actions.
- The ALLNET version also has an additional sensor port from our measure and control product series. Via this sensor port you can connect a variety of external sensors for temperature or humidity up to contact inputs with magnetic contacts to detect the window openings.

The high-quality Sensirion multisensor has an integrated dual-channel principle for measuring carbon dioxide concentration and is designed to automatically compensate for possible long-term drifts.

Possible areas of use:

- Offices
- Waiting room of a doctor's office
- Patient room in hospital
- Retail sales area
- Open-plan office
- Conference room at a lawyer / tax consultant
- Hotel room / lobby
- Fitness studios
- Restaurants and bars
- Authorities / Public institutions
- Clubhouses
- Churches / Mosques / a.o. prayer rooms
- Assisted living rooms
- Retirement home / nursing home

- Kindergarten
- Large day care centers
- Therapeutic day care centers
- Day care centers
- Kitas
- Classrooms



Example web interface:

CO2 Grüner Bereich



CO2 Gelber Bereich



CO2 Roter Bereich



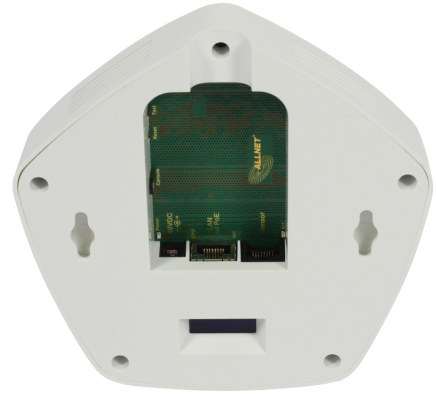
Technical Details:

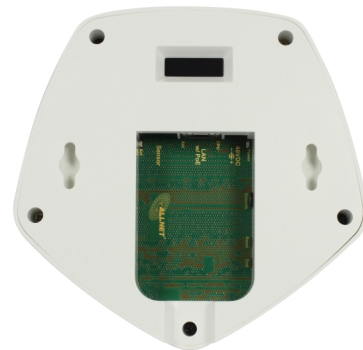
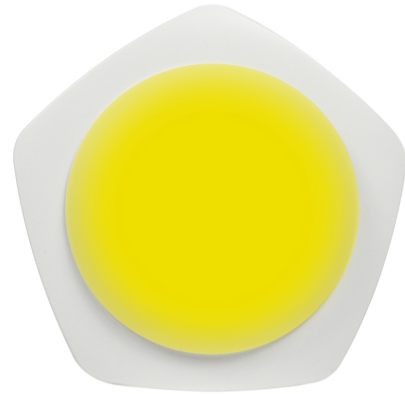
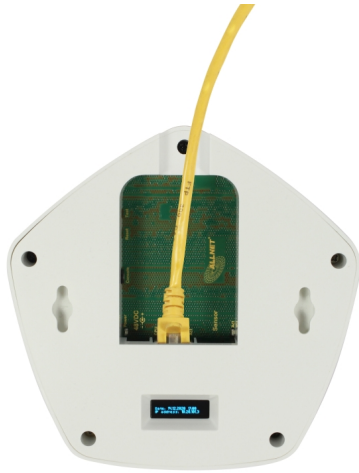
Element	Specification
Interfaces:	1x 5.5mm/2.1A power supply connector (48V power supply included) 1x I2C sensor port for optional ALLNET sensors or actuators 1x 100Mbit RJ45 LAN with integrated PoE IEEE802.3af 1x 3,5mm jack socket for console (programmer/interface)



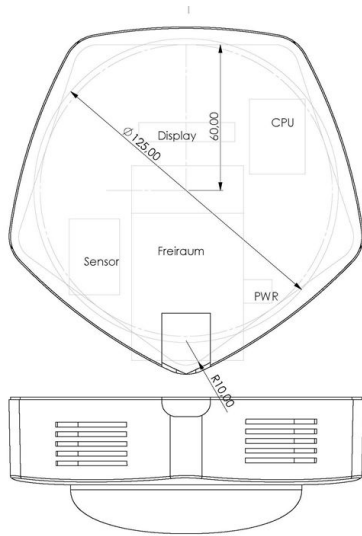
CO2 Sensor	CO2 measuring range 0- 40'000 ppm CO2 measurement accuracy $\pm$ (30 ppm + 3% MV) ideal range (25 °C, 400 - 10'000 ppm) Repeatability 10 ppm Temperature stability 2.5 ppm / °C (0-50 °C) Response time (t63) 20 s
Network connection:	1x RJ45 10/100Mbps
Wireless LAN:	Ralink/Mediatek MT7688AN Chipset 2.4 GHz Wireless N, up to 150 Mbps Security: WEP 64/128bit, WPA, WPA2
Supported standards:	IEEE 802.3 IEEE 802.3u IEEE 802.11b/g/n
Power supply:	100~240 VAC, 50/60 Hz, 48V / 0.5A external power adapter
Power consumption:	<3 watts maximum
LED brightness:	<ul style="list-style-type: none"> <li>• White: 14x12lm = 168lm</li> <li>• Red: 14x10lm = 140lm</li> <li>• Green: 14x20lm = 280lm</li> <li>• Blue: 14x6lm = 84lm</li> </ul>
Buzzer Volume:	min. 85dB
Housing:	Design plastic case (optional metal anti-theft protection available).
Environment:	Operating temperature: 0 ~ 40 °C Operating humidity: 10% ~ 85% (non-condensing) Storage temperature: -20 ~ 60 °C Storage humidity: 5% ~ 90% (non-condensing)
Marks	CE, RoHS, RED
Dimensions:	145 x 145x 15 mm (length x width x height) Ø145mm diameter
Weight:	249 grams
Package contents:	- ALLNET ALL-PoE-CO <sub>2</sub> Lamp - Power supply external "48V 0,5A - Patchcable - Instruction manual

## Additional Images











## Accessories

Part No.	Name
134721	ALLNET MSR Sensor ALL3008 / Temperature sensor
157798	ALLNET ALL3020 / Sensor for humidity and temperature
157801	ALLNET ALL4420 / Combi sensor humidity/temp. in housing
98820	ALLNET ALL4404 / Multiplexing Modul-Hub 8-fach
98836	ALLNET ALL4442 / contact input 4-port in metal case
163543	ALLNET MSR ALL3040 zbh. Window contact 2PIN f. ALL3040
186548	ALLNET PoE Injector Gigabit PoE & PoE+ (15,4W/30W) / plastic
193997	ALLNET Switch full managed 8 port Gigabit 130W / 8x PoE+ /