

## CO<sub>2</sub>-led Air Quality “Traffic Light” with Data Logger

### Features

The air quality "traffic light" measures the carbon dioxide concentration in the room with help of a very exactly infrared measuring system and shows the air quality according to the traffic lights principle. Pictographs support simply using. In addition acoustic signals make attentive, if the air in quality is changing. The device simply is hung up to the wall. A plug power supply is enclosed to the power supply.

CO <sub>2</sub> concentration (ppm)	optical signal (LED)	sound signal (Beeptone)	Air quality
0 to 1500	😊 green		good
1500 to 2500	😐 yellow	one time	indifferently Reveal re-commended
2500 to 3000	😞 red	two times	bad Please reveal
over 3000	😞 red blinking	five times	worst Reveal Absolutely!

### Applications

Particularly suitable for classrooms, conference room and all rooms with a high person number

Assembly by expert not necessary

No calibration required

### Air Quality “Traffic Light”



### Data logger function

In addition to the visual indication of the predominant air quality this version of the air quality traffic lights makes a data recording possible for 2 modes:

- ✎ Storage of the CO<sub>2</sub> values in an interval of 1 minute and a maximum recording duration of 1 week according to the assignment of the stored measurements to a PC and graphic representation of CO<sub>2</sub> history
- ✎ This one shows current measurements by online connection to a PC and graphic representation of the current CO<sub>2</sub> course over a period from 15 to 90 minutes; possible storage of the curse of curve

# Technical Data

## Hardware

External power supply:	Plug power supply	230VAC
	Current consumption	350 mA (24VDC)
Measurement range:	0..3000 ppm (parts per million) 3000 ppm represent 0,3 Vol. %	
Operating temperature/humidity:	-10 .. +50 °C / 15 .. 95 % r.H.	
Housing:	Plastic white	
Device protection:	IP30	
Device weight:	app. 150 g	
Device dimension:	78 x 78 x 35 mm	
Optical measurement display:	LED green	CO <sub>2</sub> < 1500 ppm
	LED yellow	1500 .. 2500 ppm
	LED red	2500 .. 3000 ppm
	LED red blinking	CO <sub>2</sub> > 3000 ppm
Warning sounds:	Buzzer 1x	1500 .. 2500 ppm
	Buzzer 2x	2500 .. 3000 ppm
	Buzzer 5x	CO <sub>2</sub> > 3000 ppm
Error in Hard- or Software:	LED yellow is blinking	

## Software

Connection to PC:	by PC patch cords
Necessary software at the PC:	EXCEL 2003 or earlier version
Storage interval:	1 min
Storage duration:	at most 1 week
Time assignment of the measurements:	yes, by time stamps
Construction of the Excel table:	Time stamp
	Date and time
	Record number
	Measurement value (CO <sub>2</sub> in ppm)
	Power failure advertisement
	green LED on and off
	Yellow LED on and off
	Red LED on and off

## Scope of supply

Air quality "traffic light" with data logger, plug power supply, PC cable, PC software, documentation