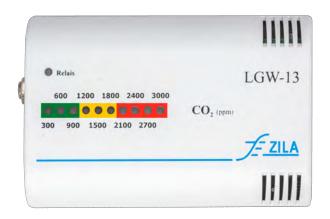
A multifunctional CO₂ detector, equipped with switching functions for industrial and residential applications

- ✓ Available as a tabletop unit with a power supply or as a surface/wall-mounting unit
- ☑ Air quality traffic light with 10 LEDs indicates the CO₂ content in detail
- ☑ Comes with an integrated alarm horn (optical and audible warning function)
- ☑ CO₂-controlled switching functions and automatic control for 24V fans, dampers and window openers
- ☑ Small and compact housing



Technical data

Characteristics

CO ₂ measuring range (standard)	03000ppm* ¹
CO₂ signal output	4-20mA and 010V
Operating voltage	24V DC / 150mA*2
Bar graph display	10 LEDs, 1 LED per 300ppm
CO₂ measuring technology	optical, NDIR*3
Housing and dimensions	polycarbonate, white, 120x80x35mm
Protection class	IP 20

Operating conditions

Opertating temperature	-10+50°c
Storage temperature	-30+70°c
Relative humidty	095% rF, non-condensing
Air pressure	9001100 hPa

- *1 Standard sensors of 3000ppm, 5000ppm, 10000ppm, 20000ppm, 50000ppm or with a measuring range of 0.3 , 0.5 , 1 , 2 or 5 per cent by volume; other ranges upon request
- *2 only supported by the LGW-13L
- *3 NDIR: non-dispersive infrared absorption measurement

Display functions

The device comes with:

- ☑ A 10-digit bar graph display, showing the CO₂ concentration (air quality) of the idoor air (IAQ)
- ☑ A yellow LED to signal that the adjustable CO₂ relay output is activated
- ☑ Separate LEDs in the ventilation slots for monitoring the CO₂ sensor, which light up after applying the supply voltage
- ☑ An error indication (when the LED lights turn off)

Switching functions

- ✓ There are two switching thresholds, preconfigured at our works
- ☐ The first switching limit is potential-free or a connected 24V ventilation unit (by a jumper)
- ☑ Depending on the second set CO₂ limit, the alarm horn sounds. With a jumper, a lower or a higher volume level can be selected.

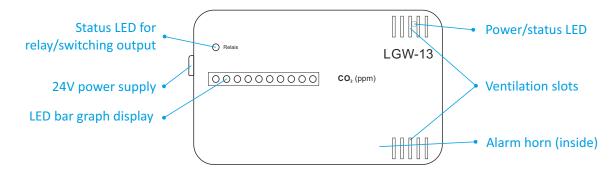
Technical modifications reserved

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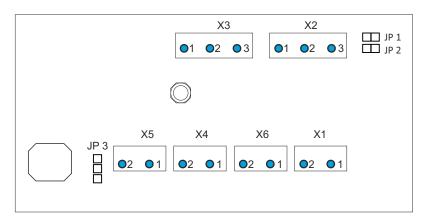


Housing and electronics



Pin assignment

Looking at the PCB from above



Connection of fans

JP 1, JP 2 open:

2 x potential-free outputs

JP 1, JP 2 closed:

Connection for 24VDC fans or window openers JP 1 closed: +24 VDC on X2-3 and X3-2 JP 2 closed: GND on X2-2 and X3-3

Alarm horn:

JP 3 open: off JP 3 1-2: high volume JP 3 2-3: low volume

Further information about the actuator connection and the signal outputs can be obtained from the mounting and operating instructions.

Order

Scope of delivery

Indoor Air Quality Guard LGW-13S | LGW-13L

Material for wall-mounting

Mounting and operating instructions

Options for your order

LGW-13S
LGW-13L
Requested CO₂ measuring range as mentioned above
24V power supply for direct 230VAC connection

Technical modifications reserved

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