

EASYBus - sensor modul for carbon monoxide (CO)

E.A.S.Y. Bus
- Modul



NEW

EBG - CO - 1R

Properties

High quality CO transmitter for detection of carbon monoxide in underground garages, parking garages, boiler plants, heating systems, garages as well as in the ambient air.

The CO sensor module has a very long-lasting electrochemical measuring cell and could be easily installed.

Range of Application:

- underground garages, parking garages
- boiler plant and heating systems
- motorcar garage

Highlights:

- long-lasting electrochemical measuring cell
- automatic zero calibration
- 3 years warranty for the co sensor element

Specification

Measuring range:	0 ... 300 ppm CO (carbon monoxide)
Measuring principle:	electrochemical, permanent measuring
Reproducibility:	< 3 ppm according to VDI 2053
Response Time t_{90}:	< 60 s
Cross sensitivity:	≤ 2% of 300 ppm CO (acc. to VDI 2053)
Linearity error:	≤ 2% of 300 ppm CO (acc. to VDI 2053)
Offset adjustment:	automatically
Interface:	EASYBus-interface
Auxiliary energy:	14 ... 30 V DC, max. 50 mA
Working condition:	-10 ... +40 °C, 15 ... 95 %RH (non-condensing)
Option: on site display	3½-digit LC-display
EMC:	according to EN 50 081-1, EN 50 082-2 B
Electric connection:	elbow-type plug acc. to DIN 43650 (IP65), max. wire cross section: 1.5 mm ² , wire diameter from 4.5 to 7 mm
Housing:	ABS, 82 x 80 x 55 mm (without elbow-type plug)
Mounting:	with fixing holes for wall mounting
Mounting distance:	70 x 50 mm (W x H)
Fixing screws:	max. shaft-Ø
Weight:	approx. 200 g

Options / upcharge

VO: on site display

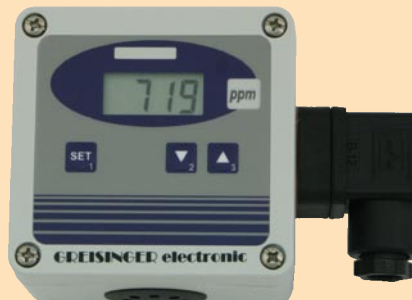
Accessories

GZ-01	test gas cap GT (for controlled flow with test gas)
GZ-02	gas bottle with 12l test gas: 30 ppm CO
GZ-03	gas bottle with 12l test gas: 300 ppm CO
GZ-04	gas valve unit MiniFlo for gas bottles with 12l
GSN 24	plug-in power supply (230V _{AC} => 24V _{DC} /300mA)

additional accessories upon request

EASYBus - sensor modul for carbon dioxide (CO₂)

E.A.S.Y. Bus
- Modul



EBG - CO2 - 1R

Properties

Due to the fact, that CO₂ is an important indicator for the quality of air in rooms, it's super important to measure the CO₂ content.

The recommended CO₂ limit value for ambient air is 1000 ppm . An exceeding of this limit causes tiredness and a loss of concentration.

The high quality and precise CO₂-module works according to the infrared principle (NDIR). An auto-calibration procedure compensates aging effects and is responsible for an excellent long term stability of this CO₂-module.

Additionally, there is a local display which shows beside the actual CO₂ concentration, the minimum and maximum values as well as an optical alarm.

Highlights:

- auto-calibration procedure
- auto-calibration procedure
- for surveillance of the recommended CO₂ concentration in ambient air

Specification

Meas. range:	standard: 0 ... 2000 ppm CO ₂ (carbon dioxide) opt. /5000: 0 ... 5000 ppm CO ₂ (carbon dioxide)
Measuring principle:	infrared principle (NDIR)
Accuracy:	standard: ±50 ppm ±2 % of meas. value (at 20°C, 1023 mbar) opt. /5000: ±50 ppm ±3 % of meas. value (at 20°C, 1023 mbar)
Interface:	EASYBus-interface
Auxiliary energy:	12 ... 30 V DC, max. 600 mA
Display:	approx. 10 mm high, 4-digit LC-display
Working condition:	-10 ... +50 °C, 5 ... 95 %RH, 850 ... 1100 hPa
Storage condition:	-25 ... +60 °C, 5 ... 95 %RH, 700 ... 1100 hPa
Electric connection:	elbow-type plug acc. to DIN 43650 (IP65), max. wire cross section: 1.5mm ² , wire diameter from 4.5 to 7 mm
Terminal assignment:	2 x EASYBus, no polarity 2 x Auxiliary energy
Housing:	ABS, 82 x 80 x 55 mm (without elbow-type plug)
Mounting:	with fixing holes for wall mounting
Mounting distance:	70 x 50 mm (W x H)
Fixing screws:	max. shaft-Ø 4 mm
Weight:	approx. 225 g
Features:	- min-/max-value memory, - optical alarm, - input of offset and scale for adjusting

Options / upcharges

5000: measuring range: 0 ... 5000 ppm CO₂ NEW

Accessories

GSN 24-750 plug-in power supply (230V_{AC} => 24V_{DC}/750mA)