EASYBus - sensor modul for carbon monoxide (CO)

E.A.S.Y.Bus - Modul

EBG - CO - 1R

EASYBus - sensor modul for carbon monoxide (CO)

General:

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.

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

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

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 LCD-display
EMC:	according to EN 50081-1, EN 50082-2 B
Electric connection:	elbow-type plug acc. to EN 175301-803/A (IP65), max. wire cross section: 1.5 mm², wire diameter from 4.5 ... 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 4 mm
Weight:	approx. 200 g

Option:

VO:
on site display

Accessories and spare parts:

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 (230 V_{AC} => 24 V_{DC}/300 mA)

additional accessories upon request

EASYBus - sensor modul for carbon dioxide (CO_2)

E.A.S.Y.Bus - Modul

EBG - CO2 - 1R

EASYBus - sensor modul for carbon dioxide (CO_2)

General:

Due to the fact, that CO_2 is an important indicator for the quality of air in rooms, it's super important to measure the CO_2 content.
The recommended CO_2 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 CO_2-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 CO_2-module.
Additionally, there is a local display which shows beside the actual CO_2 concentration, the minimum and maximum values as well as an optical alarm.

Highlights:
- excellent long-term stability
- auto-calibration procedure
- for surveillance of the recommended CO_2 concentration in ambient air

Specification:

Measuring 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 LCD-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 EN 175301-803/A (IP65), max. wire cross section: 1.5 mm², wire diameter from 4.5 ... 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

Option:

5000:
measuring range: 0 ... 5000 ppm CO_2

Accessories and spare parts:

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

EASYBus-components p.r.t. page 96-100