CO-TRANSDUCER



GT1-CO

Product-ID: 602858 CO-Transducer

High quality, TÜV certified 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 transducer has a very long-lasting electrochemical measuring cell and could be easily integrated in existing CO surveillance systems (without loss of validity of existing TÜV certificates). Via two-wire system, displays, controller and alarm devices with 4-20 mA input could be connected without any problem.

Highlights:

- TÜV certification according to VDI 2053
- also suitable as replacement sensor for existing CO surveillance systems
- · long-lasting electrochemical measuring cell
- automatic zero calibration
- 3 years warranty for the co sensor element

Application:

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

Specifications:

Measuring range: 0 ... 300 ppm CO (carbon monoxide) Measuring principle: electrochemical, permanent measuring < 3 ppm according to VDI 2053 Reproducibility:

Response Time T₉₀: < 60 s

≤ 2 % of 300 ppm CO (acc. to VDI 2053) Cross sensitivity: ≤ 2 % of 300 ppm CO (acc. to VDI 2053) Linearity error:

Offset adjustment: automatically

Output signal: 4 - 20 mA, 2 wire, max, burdon = 500 Ohm 12 - 28 V DC (at option VO: 16 - 28 V DC) Power supply: $R_{\Delta}[\Omega] \le (Uv [V] - 12 V \text{ or } 16 V) / 0.02 A$ Permissible burdon: Working condition: -10 ... +40 °C, 15 ... 95 % RH (non-condensing) approx. 13 mm high, 31/2-digit LC-display Option: on site display EMC: according to EN 50 081-1, EN 50 082-2 B elbow-type plug acc. to EN 175301-803/A (IP65), Electric connection:

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)

Mountina: with fixing holes for wall mounting

Mounting distance: 70 x 50 mm (W x H) Fixing screws: max. shaft-Ø 4 mm Weight: approx. 190 g

Variante:

GT1 - CO VO

Product-ID: 607965

CO Transducer with on site display

Accessories and spare parts:

Product-ID: 603122

test gas cap GT (for controlled flow with test gas)

GZ-02

Product-ID: 603569

gas bottle with 12l test gas: 30 ppm CO

Product-ID: 603123

gas bottle with 12l test gas: 300 ppm CO

GZ-04

Product-ID: 603570

gas valve unit MiniFlo for gas bottles with 12I

GSN-24

Product-ID: 604386

plug-in power supply (230 VAC => 24 VDC/300 mA)





GT10-CO2-1R

Product-ID: 602599

CO₂-Transducer

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-transducer 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 transducer.

Due to the freely adjustable output signal the transmitter could be used for nearly each existing controller input etc. 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:
 excellent long term stability
- auto-calibration procedure
- for surveillance of the recommended CO2 concentration in ambient air
- · output signal free scaleable

Specifications:

standard: 0 ... 2000 ppm CO₂ (carbon dioxide) optional: 0 ... 5000 ppm CO₂ (carbon dioxide) Measuring range:

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)

Output signal:

4 - 20 mA (3-wire), standard 0 - 1 V or 0 - 10 V (3-wire), upon upcharge

Output scaling: free scaleable, by entering display range

Auxiliary energy: 12 ... 30 V DC, max. 600 mA

(at option 0-10 V: 18 ... 30 V DC, max. 600 mA)

Permissible burdon (at 4-20 mA): R_A < 200 Ω

 $R_1 > 3000 \Omega$ Perm. load (at 0-...Volt):

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 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) max. shaft-Ø 4 mm Fixing screws: Weight: approx. 225 g Features: - min-/max-value memory,

- optical alarm

- input of offset and scale for adjusting

Option:

MB2:

measuring range: 0 ... 5000 ppm CO₂

AV01:

output signal 0-1 V

AV010:

output signal 0-10 V

Accessories and spare parts:

GSN 24-750

Product-ID: 604387

plug-in power supply (230 $V_{AC} \Rightarrow 24 V_{DC}/750 \text{ mA}$)