

CO<sub>2</sub>-TRANSDUCER

## HIGHLIGHTS:

- excellent long term stability
- auto-calibration procedure
- for surveillance of the recommended CO<sub>2</sub> concentration in ambient air
- output signal free scaleable

## GT10-CO2-1R

Art. no. 602599

CO<sub>2</sub>-Transducer

## General:

Due to the fact, that CO<sub>2</sub> is an important indicator for the quality of air in rooms, it's super important to measure the CO<sub>2</sub> content. The recommended CO<sub>2</sub> 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<sub>2</sub>-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 CO<sub>2</sub> 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 CO<sub>2</sub> concentration, the minimum and maximum values as well as an optical alarm.

## Specifications:

<b>Measuring ranges:</b>	Standard: 0 ... 2000 ppm CO <sub>2</sub> (carbon dioxide) Optional: 0 ... 5000 ppm CO <sub>2</sub> (carbon dioxide)
<b>Measuring principle:</b>	infrared principle (NDIR)
<b>Accuracy:</b>	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)
<b>Output signal:</b>	4 ... 20 mA (3-wire), standard 0 ... 1 V or 0 ... 10 V (3-wire), upon upcharge
<b>Output scaling:</b>	free scaleable, by entering display range
<b>Auxiliary energy:</b>	12 ... 30 V DC, max. 600 mA (at option 0 ... 10 V: 18 ... 30 V DC, max. 600 mA)
<b>Permissible burden (at 4 ... 20 mA):</b>	R <sub>A</sub> <200 Ω
<b>Perm. load (at 0...Volt):</b>	R <sub>L</sub> >3000 Ω
<b>Display:</b>	approx. 10 mm high, 4-digit LC-display
<b>Working condition:</b>	-10 ... +50 °C, 5 ... 95 % RH, 850 ... 1100 hPa
<b>Storage condition:</b>	-25 ... +60 °C, 5 ... 95 % RH, 700 ... 1100 hPa
<b>Electric connection:</b>	elbow-type plug acc. to EN 175301-803/A (IP65), max. wire cross section: 1.5 mm <sup>2</sup> , wire diameter from 4.5 ... 7 mm
<b>Housing:</b>	ABS, 82 x 80 x 55 mm (without elbow-type plug)
<b>Mounting:</b>	with fixing holes for wall mounting
<b>Mounting distance:</b>	70 x 50 mm (W x H)
<b>Fixing screws:</b>	max. shaft-Ø 4 mm
<b>Weight:</b>	approx. 225 g
<b>Features:</b>	min-/max-value memory, optical alarm, input of offset and scale for adjusting

## Option:

## MB2:

Measuring ranges: 0 ... 5000 ppm CO<sub>2</sub>

## AV01:

Output signal 0 ... 1 V

## AV010:

Output signal 0 ... 10 V

## Accessories and spare parts:

## GSN 24-750

Art. no. 604387

Plug-in power supply (230 V AC =&gt; 24 V DC / 750 mA)

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