

0-10V / MODBUS SENSORS

Air quality sensors GS 40.00 mod



Accessories



Back part for surface wiring 200.004

Overview

- Detection of air quality (CO₂-concentration, rel. humidity, temperature)
- CO₂-sensor (Measuring range 390...10.000 ppm)
- CO₂-value is atmospheric pressure compensated
- Sensors for CO₂-, temperature, humidity and atmospheric pressure measurement
- Temperature sensor (Measuring range 0...+50 °C)
- Humidity sensor (Measuring range 0...100% rel. humidity)
- Modbus-Modes (ASCII / RTU) configurable
- Easy installation and mounting
- Modern and planar design

NEW:

- 3 control outputs (0-10 V) for measured values of CO₂ concentration, rel. humidity and temperature

Information about CO₂ and Covid-19

- Every person is emitting CO₂ and aerosols e.g. during breathing. Today **aerosols are claimed to be one of the transmission ways of SARS-CoV-2**. CO₂-concentrations can be measured and the correlation between the CO₂ and the aerosol concentration can be used for analytical investigations, which use the measured CO₂-concentration to calculate a likely aerosol concentration. (*TU Berlin*)
- A longer stay in small, bad or not ventilated room can increase the probability of a Covid-19 spread by aerosols even on bigger distances over 2 m. (*RKI*)
- The use of our CO₂-sensors and the resulting room ventilation **helps minimizing the risk of infection** e.g. in schools or offices, gyms, restaurants or other premises where several people stay together.

Order numbers

■ müller

GS 40.00 mod

CO₂- / air quality sensor

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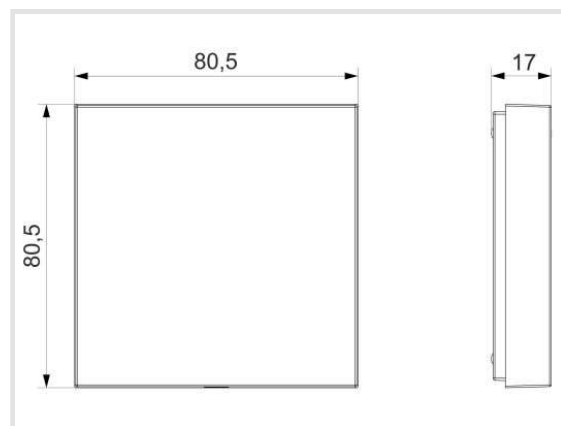
Air quality sensors GS 40.00 mod

Order information

	EAN	Art. No.
GS 40.00 mod	4022709238757	23875

Technical data

Supply voltage	12-40 V DC
Bus current	<20 mA
Bus system	Modbus ASCII, Modbus RTU via RS 485
Baud rates	4800, 9600, 19200 (Default), 38400
Parity settings available	None, even, odd
Sensors	CO ₂ Temperature Relative humidity Atmospheric pressure Dew point
Measuring range CO ₂ -concentration	390-10.000 ppm
Measuring range temperature	0°...+50° C
Measuring range relative humidity	0...100%
Measuring range atmospheric pressure	300-1.100 hPa
Outputs	3x analogue outputs (0-10V)
Analogue measurement output	Temperature: 0-50°C Relative humidity: 0-100% Carbon dioxid CO ₂ : 500 – 2000 ppm
Permitted ambient temperature	0°...+50° C
Housing	self-extinguishing thermoplastic
Dimensions	80,5 x 80,5 x 17 mm
Housing color	studio white (similar to RAL 9016) Specific colors on request
Mounting	Wall mounting (preferrably combined with flush-mounting box)
Type of connection	Push-in connector
Type of protection	IP 20 (DIN EN 60529)
Class of protection	III when installed according to regulations



Functions and data provided to Modbus:

CO ₂	Value output
Relative humidity	Value output
Temperature	Value output
Dewpoint	Value output
Air pressure	Value output
and much more...	

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