

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...5.000 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

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	CO ₂ - / air quality sensor (Modbus)

MODBUS SENSORS

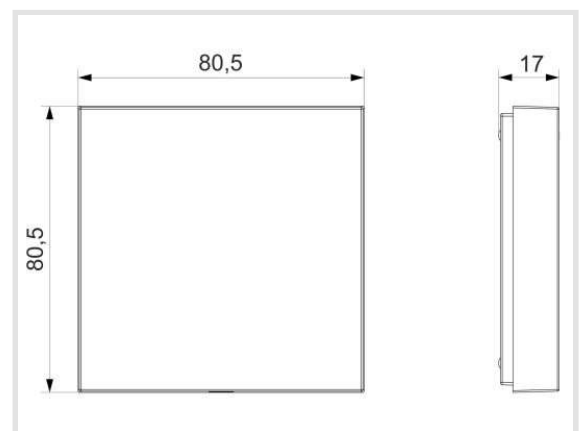
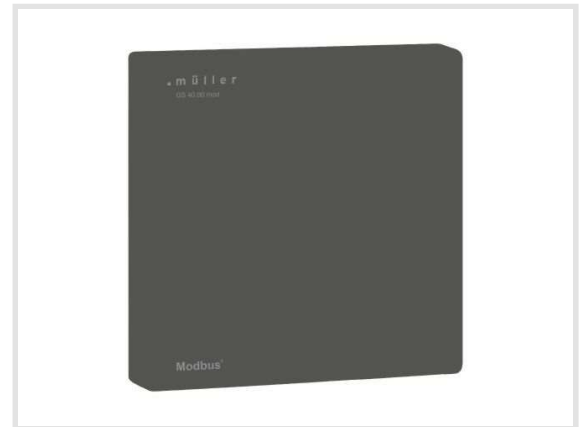
Air quality sensors GS 40.00 mod

Order information

	EAN	Art. No.
GS 40.00 mod	4022709238757	23875
GS 40.00 mod RAL9005 jet black	4022709243218	24321

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	390-5.000 ppm
Measuring range temperature	0°...+50° C
Measuring range relative humidity	0...100%
Measuring range atmospheric pressure	300-1.100 hPa
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) or jet black (similar to RAL 9005) Specific colors on request
Mounting	Wall mounting (preferably 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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