CLIMATE CONTROLS
Air quality sensors & controls GS 4x.00 knx

Accessories

Back part for surface wiring 200.004

Overview

■ Detection of air quality
(CO_2-concentration, rel. humidity, temperature)

■ CO_2-sensor (Measuring range 390...5.000 ppm air pressure compensated)

■ CO_2-value is atmospheric pressure compensated

■ Sensors for CO_2-, temperature, humidity and atmospheric pressure measurement

■ Temperature sensor (Measuring range 0°...+50° C)

■ Humidity sensor (Measuring range 0...100% rel. humidity)

■ Humidity comparator function

■ Clearly structured ETS

■ Easy installation and mounting

■ Modern and planar design

■ Wall mounting

■ Additionally at GS 41.00 knx: manual adjustment of set-point temperature via touch panel (adjustment range ± 3 °, increment 0,5 °)

Information about CO2 and Covid-19

■ Every person is emitting CO_2 and aerosols e.g. during breathing. Today **aerosols are claimed to be one of the transmission ways of SARS-CoV-2**. CO_2-concentrations can be measured and the correlation between the CO_2 and the aerosol concentration can be used for analytical investigations, which use the measured CO_2-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 CO_2-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

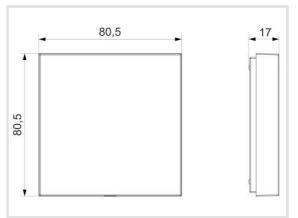| **. müller**	
GS 40.00 knx	CO_2- air quality sensor & control
GS 41.00 knx	CO_2- air quality sensor & control with manual set-point temperature adjustment ± 3°C

CLIMATE CONTROLS
Air quality sensors & controls GS 4x.00 knx

Order information

	EAN	Art. No.
GS 40.00 knx	4022709233486	23348
GS 41.00 knx	4022709236449	23644
GS 40.00 knx RAL9005 jet black	4022709241665	24166
GS 41.00 knx RAL9005 jet black	4022709241689	24168

Technical data

Supply voltage	via KNX bus voltage
Bus current	< 10 mA
Bus system	KNX
Sensors	CO_2 temperature relative humidity atmospheric pressure dew point VAV ventilation control
Manual operation (only GS 41.00 knx)	manual adjustment of set-point temperature (adjustment range ± 3 °, increment 0,5 °)
Measuring range CO_2-concentration	390...5.000 ppm (air pressure compensated)
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 (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 KNX bus:

CO_2	Value output Control (step and PI control)
Relative humidity	Value output Control (step and PI control) Comperator
Temperature	Value output Control heating (2-point- and PI control) Control cooling (2-point- and PI control) Alarms
Dewpoint	Value output Alarms
Air pressure	Value output
VAV control	Value output (0...100%)
and much more...	