AIR QUALITY CONTROLLERS
Air quality sensors & controllers GS 47.11 knx / GS 48.11 knx

Zubehör

TF06 Temperature sensor

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
- 5 binary and analogue inputs (e.g. for connecting an external temperature sensor)
- Clearly structured ETS
- Easy installation and mounting
- Modern design
- Flush mounting
- Fits in common switch range (55 x 55 mm)
- manual adjustment of set-point temperature via touch slider (adjustment range ± 3°, increment 0,5°)
- CO_2 / rH - monitor
- *Frame is not included in delivery*

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

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GS 47.11 knx	CO_2- air quality sensor with CO_2/rH-monitor
GS 48.11 knx	CO_2- air quality sensor & controller with manual set-point temperature adjustment ± 3°C & CO_2/rH-monitor

AIR QUALITY CONTROLLERS
Air quality sensors & controllers GS 47.11 knx / GS 48.11 knx

Order information

	EAN	Art. No.
GS 47.11 knx	4022709243799	24379
GS 48.11 knx	4022709242396	24239

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
Inputs	5 binary and analog inputs I1: analog input 0-10 V I4 & I5: For external temperature sensor input for most common temperature sensors
Manual operation	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	55 x 55 mm
Housing color	studio white (similar to RAL 9016) specific colors on request
Mounting	flush-mounting
Type of connection	push-in connector KNX-connector
Type of protection	IP 20 (DIN EN 60529)
Class of protection	III when installed according to regulations
Type of connection external inputs	wire diameter max. 6 x 0,2 - 4,0 mm² strip length 10 mm

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) Comparator
Temperature	Value output Control heating (2-point- and PI control) Control cooling (2-point- and PI control) Alarms
Dewpoint	Value output Alarms
Heat index	Value output Alarms
Air pressure	Value output
VAV control	Value output (0...100%)
and much more...	

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