

AIR QUALITY CONTROLLERS

Air quality sensors & controllers GS 40.12 / GS 41.12



Accessories



TF06 Temperature sensor



Back part for surface wiring 200.004

Overview

- Detection of air quality (CO₂-concentration, rel. humidity, temperature)
- CO₂-sensor (Measuring range 425...5.000 ppm air pressure compensated)
- 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)
- Humidity comparator function
- 2 separate temperature controls via KNX
- Temperature control with up to 4 sensor values possible
- Up to 2 VAV controls possible
- 5 binary and analogue inputs (e.g. for connecting an external temperature sensor)
- 3x analog outputs (0–10 V)
- RGB, RGBW and Tunable White dimming function
- KNX Secure
- Updatable
- Clearly structured ETS
- Easy installation and mounting
- Modern and planar design
- Wall mounting [80 mm]
- Party function
- Additionally at GS 41.12 knx: manual adjustment of set-point temperature via touch panel

Order numbers

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GS 40.12 knx	CO ₂ - air quality sensor & controller
GS 41.12 knx	CO ₂ - air quality sensor & controller with manual set-point temperature adjustment

AIR QUALITY CONTROLLERS

Air quality sensors & controllers GS 40.12 / GS 41.12

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
Air pressure	Value output
VAV control	Value output (0...100%)
and much more...	

Technical data

Supply voltage	via KNX bus voltage
Bus current	< 12,5 mA
Bus system	KNX
Safety	KNX Secure
Sensors	CO ₂ temperature relative humidity atmospheric pressure dew point VAV ventilation control
Inputs	4 binary inputs 1 input configurable as a temperature sensor input for common temperature sensors
Outputs	3 analog outputs 0–10 V
Manual operation (only GS 41.12 knx)	manual adjustment of set-point temperature
Measuring range CO ₂ -concentration	425...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 (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
Type of connection external inputs	wire diameter Solid: 0.5–2.5 mm ² Flexible: 0.5–1.5 mm ² Stripping length 7 mm

Order information

	EAN	Art. No.
GS 40.12 knx	4022709247049	24704
GS 41.12 knx	4022709247056	24705
GS 40.12 knx RAL9005 jet black	4022709247100	24710
GS 41.12 knx RAL9005 jet black	4022709247117	24711

