

CLIMATE CONTROLS

Air quality sensors & controls GS 4x.10 knx



Overview

- Detection of air quality (CO₂-concentration, rel. humidity, temperature)
- CO₂-sensor (Measuring range 390...10.000 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
- 5 binary and analogue inputs (e.g. for connecting an external temperature sensor)
- Clearly structured ETS
- Easy installation and mounting
- Modern and planar design
- Wall mounting
- Additionally at GS 41.10 knx: manual adjustment of set-point temperature via touch panel (adjustment range ± 3 °, increment 0,5 °)

Accessories



TF06 Temperature sensor



Back part for surface wiring 200.004

Order numbers

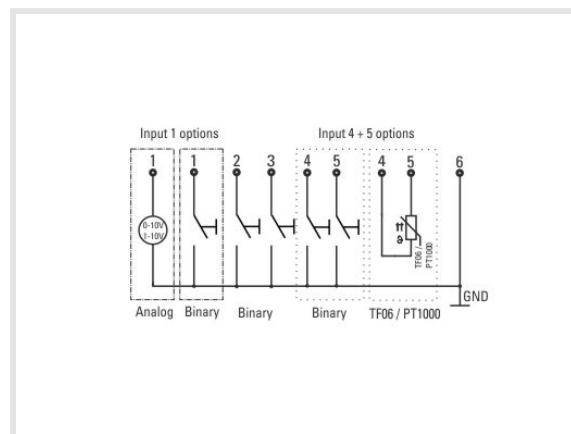
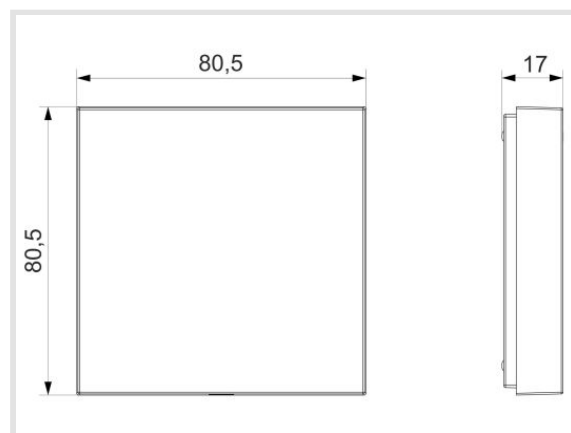
■ müller	
GS 40.10 knx	CO ₂ - air quality sensor & control
GS 41.10 knx	CO ₂ - air quality sensor & control with manual adjustment of set-point temperature $\pm 3^{\circ}\text{C}$

CLIMATE CONTROLS

Air quality sensors & controls GS 4x.10 knx

Technical data

EAN GS 40.10 knx	4022709237095
EAN GS 41.10 knx	4022709237101
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 I4 & I5: For external temperature sensor input (PT1000 or müller TF06 (10kΩ))
Manual operation (only GS 41.10 knx)	manual adjustment of set-point temperature (adjustment range ± 3 °, increment 0,5 °)
Measuring range CO ₂ -concentration	390...10.000 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) 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 max. 6 x 0,5 mm ² strip length 7 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) 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...	

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