HUMIDITY CONTROLLERS

Room Temperature Controller with Hygrostat GS 30.12 knx / GS 31.12 knx

Overview

- Temperature, air pressure, and humidity sensor
- 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 31.12 knx:
  manual adjustment of set-point temperature via touch panel

Accessories

TF06 Temperature sensor

Back part for surface wiring 200.004

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 30.12 knx	Room temperature controller and hygrostat
GS 31.12 knx	Room temperature controller and hygrostat with manual set-point temperature adjustment ± 3°C

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Order information

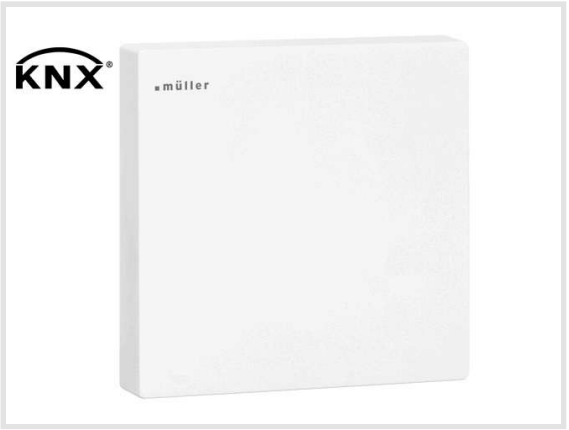
	EAN	Art. No.
GS 30.12 knx	4022709247025	24702
GS 31.12 knx	4022709247032	24703
GS 30.12 knx RAL9005 jet black	4022709247094	24709
GS 31.12 knx RAL9005 jet black	4022709247117	24711

Technical data

Supply voltage	via KNX bus voltage
Bus current	< 12,5 mA
Bus system	KNX
Safety	KNX Secure
Sensors	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 31.12 knx)	manual adjustment of set-point temperature
Measuring range temperature	0...+50 °C
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
Type of connection external inputs	wire diameter Solid: 0.5–2.5 mm² Flexible: 0.5–1.5 mm² Stripping 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) 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...	



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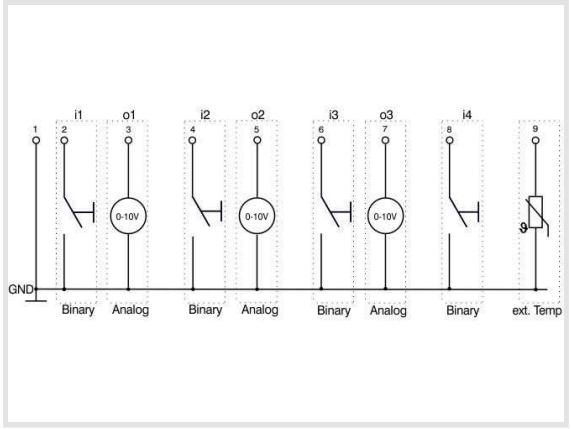

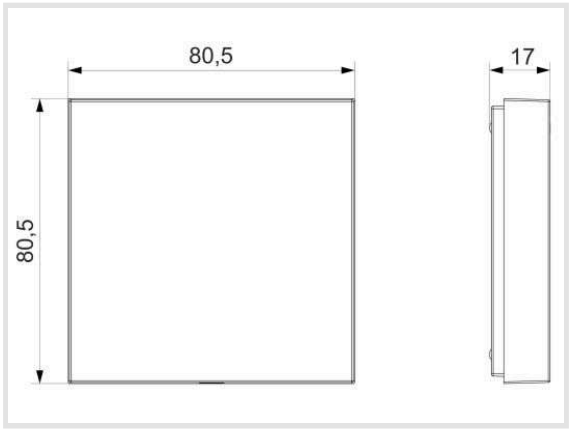

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