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CO2 sensor with humidity and room temperature controller for KNX System 55



Specification	Order No.	Packing unit	PS	EAN
cream white glossy	2104 01	-	-	4010337084464
pure white glossy	2104 03	-	-	4010337084471
pure white matt	2104 27	-	-	4010337084495
anthracite	2104 28	-	-	4010337084501
colour aluminium (lacquered)	2104 26	-	-	4010337084488
black matt (lacquered)	2104 005	-	-	4010337037231
grey matt (lacquered)	2104 015	-	-	4010337083047
stainless steel	2104 600	-	-	4010337021506

CO_2-sensor with an integrated KNX bus coupler and two binary inputs for measuring the concentration of carbon dioxide, relative humidity, and room temperature.

Illustrations are similar and may deviate from originals.

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Features

- Limit value monitoring for CO_2 concentration and humidity.
- Dewpoint alert for cooling ceilings and conservatories, for example, to prevent potential mould growth.
- Two binary inputs for connecting zero-voltage contacts.
- Logic gates for simple linking functions.

Sensor

- Up to four different limits can be set for the CO_2-sensor.
- Adaptation to current sea level above NN.
- Max. two limit values can be set for the humidity sensor.

Controller

- 5 operating modes: Comfort, standby, night, frost or heat protection, and controller lock-out (e. g. dew-point mode).
- Heating/cooling functions: Heating, cooling, heating and cooling, basic and additional heating, basic and additional cooling.
- Preset control parameters for common radiators/cooling units.
- Controller can be deactivated (dewpoint operation) or controller or operation of the controller can be blocked.
- Valve protection function (valve is opened cyclically every 24 hours).
- Control types: continuous PI control, switching PI control (PWM), and switching 2-point control (on/off).

Inputs

- Free assignment of the functions switching, dimming, blind and value transmitter to the inputs.
- Blocker for blocking individual inputs.
- Behaviour can be configured following bus voltage recovery.
- Telegram rate limiting.
- Switching function: two independent switching objects are available for each existing input and can be enabled individually, command for leading and trailing edge can be set independently (ON, OFF, CHANGE, no reaction).
- Dimming function: Single-surface and double-surface operation, time between dimming and switching and dimming increment can be set, telegram repetition, and stop telegram transmission possible.
- Blind function: command can be set with rising edge (no function, UP, DOWN, SW), operating concept can be parameterised, time between short and long-term operation adjustable, slat adjustment time adjustable.
- Encoder and light scene auxiliary unit function: edge (push button as NO contact, push button as NC contact, switch) and value with edge can be configured, value adjustment by pressing and holding a button for value transmitters possible, light scene auxiliary unit with/without memory function.

Technical data

KNX medium:	TP1-64
Measurement range	
- CO_2 concentration:	0 to 2,000 ppm
- Humidity:	10 to 95% rel. humidity
Cable length, inputs:	Max. 5 m
Protection class:	III
Connection cross section	
- maximum:	2.5 mm²
Installation depth:	23 mm
Ambient temperature:	0 °C to +45 °C

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Notes

- The CO_2-sensor does not have any operating or display elements.
- The use of a switch terminal box for connection of the external inputs is recommended.
- A separate bus coupler is not required to operate the CO_2-sensor.
