GIRA Data sheet

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



Specification	Order No.	Packing unit	GBP/piece without VAT	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.

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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.
