

# Product data sheet

## CO2 multi-sensor



### Reference number

CO2 LS 2178

### KNX CO2 multi-sensor

with integrated BCU  
with humidity sensor and room temperature controller  
with integrated push-button interface 2-gang

### Intended use

- Measurement of CO2 concentration, relative air humidity and air temperature
- Output of the measured values as telegram to the bus, e.g. for controlling fans or window drives via KNX telegrams
- Single-room temperature control in KNX installations
- Installation in flush box with dimensions according to DIN 49073

### Product characteristics

- Limit value monitoring for CO2 concentration (max. 4 threshold values) and air humidity (max. 2 threshold values)
- Dew point alarm e.g. for cooling blankets and conservatories, to avoid mould formation
- Two binary inputs for connection of floating contacts e.g. buttons, switches, window contacts
- Logic gates for simple gating functions

### Technical data

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| KNX medium:              | TP 256                                              |
| Rated voltage KNX:       | DC 21 ... 32 V SELV                                 |
| Current consumption KNX: | typical 12.5 mA<br>max. 25 mA (4 s/15 s as a cycle) |
| Connection, KNX:         | connection terminal                                 |
| Protection class:        | III                                                 |
| Ambient temperature:     | -5 ... +45 °C                                       |
| Binary inputs            |                                                     |
| Cable length:            | max. 5 m                                            |
| Cable type:              | J-Y(St)Y 2 x 2 x 0.8 mm                             |
| CO2 sensor               |                                                     |
| Measuring range:         | 0 ... 2000 ppm                                      |
| Humidity sensor          |                                                     |
| Measuring range:         | 10 ... 95 % relative humidity (r. h.)               |
| Temperature sensor       |                                                     |
| Measuring range:         | -5 ... +45 °C                                       |

### Duroplastic (scratch-proof) glossy

**Colour:**  
ivory

**Material:**  
duroplastic