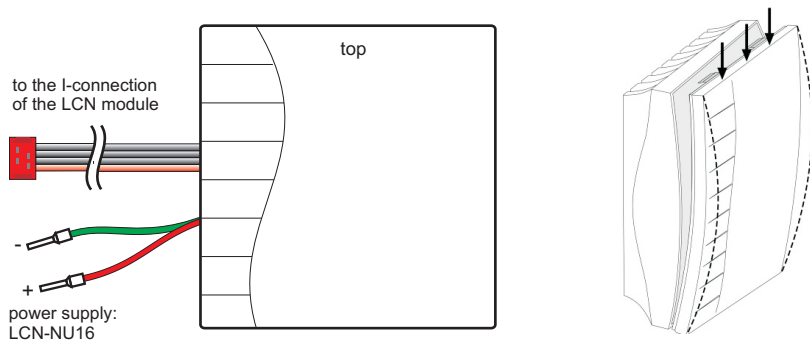


## LCN carbon dioxide sensor (CO<sub>2</sub>) for the I-port

The LCN-CO2 serves for measuring the exact CO<sub>2</sub> consistence in the environmental air and thus the air quality. With this information, the air in for example conference rooms, can be specifically and automatically ventilated efficiently. The connection is carried out directly on the I-port of the LCN module or extended using an LCN-IV.

The LCN-CO2 is suitable for the I-connection on LCN-UPx, -SH, -LD and -HU's with series number 120C05 (Dec. 2008) or later. The connecting cable to the LCN module can be extended optionally up to 50m by using 2 LCN-IV's (see also "TDi connections from peripheries" on [www.lcn.de/downloads](http://www.lcn.de/downloads)).



**Included in delivery:**

LCN-CO2 & LCN-NU16 (power supply).

**Installation**

The LCN-CO2 is installed on a flush mounted box. After connecting to the I-port, the LCN-CO2 will be detected automatically and its measured value assigned to the second regulator variable (R2-Var) of the module - you can check this value in the status window of the LCN-PRO. Alterations to the Co<sub>2</sub> value can be carried out either in regulator 2 and/or with the four switch thresholds. To do this, you must copy the R2-Var into the T-Var.

notes about installing:

- Don't install in draughty areas (doors, windows, heating sources)
- Be aware when positioning - the arrows on the circuit board are directed upwards
- The flat cable is a signal line and must be handled according to the actual VDE guidelines. Keep distance to main power supplies!
- **Important:** For easier installing, the flush mounted box should be turned in a 15° angle.
- Height of installation: optional
- Please be aware when installing in the bedroom: sensor flashes cyclic

**Benchmarks and notes for setting up**

*Unit: 1000ppm = 0,1% (just like percent (%)) that stands for a hundredth of, ppm stands for a millionth part of). parts per million*

according to the hazardous material regulations, the maximum workplace concentration (MWC) must not exceed 5000ppm.

The CO<sub>2</sub>-concentration in the fresh air is around 380ppm. The DIN EN 13779:2007-09 classifies the room air quality as follows:

- High room air quality: <400ppm
- Middle room air quality: 400-600ppm
- Moderate room air quality: 600-1000ppm
- Low room air quality: >1000ppm

According to the environmental federal office, it is urgently recommended to let in fresh air with a CO<sub>2</sub> value over 2000ppm.

**Important note:**

Despite its extensive functionalities, the LCN system is easy to install and program. However a **training course is required for every electrician** who installs this system.

**Technical data LCN-CO2**

power supply:	over LCN-NU16 (included in delivery)
LCN-connection:	I-connection of an LCN Bus module, firmware 120C05 or after
measurement range:	1-5000ppm (0 to 0,5%)
accuracy:	±30ppm ±5% from measured value
triggering:	1ppm

**Installation**

environment:	0°C to +50°C, air humidity: max. 80% rel., non condensing
use:	stationary installation according to VDE632, VDE637
protection art:	IP20
installation:	wall mounting, screw fitting to a flush mounted box
dimensions (W x H x D):	79mm x 80mm x 26mm

Technical information and images are non binding. Changes are reserved.  
Technical hotline: +49 5066 998844 or [www.LCN.de](http://www.LCN.de)