

CO2 Monitoring

Indoor Climate

General instructions acc. to BGR 228

Gas alarm units should only be planned and installed by authorised persons. BGR 228 describes all measures prescribed by law for the installation and operation of gas alarm systems. Rules should be observed and heeded in all cases.

Stationary CO2 Gas Alarm System CO2-WG

This CO2 monitoring system comes from the dispensing area. The stationary system can be individually adapted to on-site conditions, thanks to its modular structure. The integrated bus system enables the wire-saving laying of connecting cables over greater distances and also simplifies installation. The alarm is signalled through an acoustic warning tone and visually by an LED warning light. Potential-free outputs can be used to issue information on operating conditions via subordinate devices such as warning horns, warning lights, ventilation equipment resp. signalling via wireless telecommunication resp. the Internet.

Features

- ▶ Supply voltage / power: 230 V-50 Hz/max. 23 VA
- ▶ Operating temperature range: 0... 40 °C
- ▶ Analysis range: 0... 5 Vol.% CO2
- ▶ Pre-alarm: 1.5 Vol.% CO2 - visual/acoustic pulsating
- ▶ Main alarm: 3 Vol.% CO2 - visual/acoustic continuous
- ▶ Protection rating IP54, protection class II
- ▶ Low installation costs due to bus system
- ▶ Automatic system initialisation
- ▶ Long maintenance cycles
- ▶ PA option: Actuation of external devices via potential-free outputs
- ▶ PA signal outputs: Sum alarm; operation; fault; pre-alarm; main alarm (230 V/50Hz; max. 2 A per output)

Designation	Details	Order no.	Unit price/€
CO2-WG-GP	Basic CO2 gas alarm system package, consisting of: 1x208.2002, 1x208.2001, 1x208.2005, 6m 208.2007	208.2000	
CO2-WG-GP-PA+AM	Basic CO2 gas alarm system package, consisting of: 1x208.2016, 1x208.2001, 1x208.2005, 6m 208.2007	208.2014	
CO2-WG-GP-PA+AM Plus	Basic CO2 gas alarm system package, consisting of: 1x208.2017, 1x208.2001, 1x208.2005, 6m 208.2007	208.2015	
CO2-WG-SE	Sensor unit for CO2 gas alarm system	208.2001	
CO2-WG-WE	Alarm unit for CO2 gas alarm system	208.2002	
CO2-WG-WE-PA+AM	Alarm unit for CO2 gas alarm system with 5 outputs	208.2016	
CO2-WG-WE-PA+AM Plus	Alarm unit for CO2 gas alarm system with 5 outputs plus warning light with warning horn	208.2017	
CO2-WG-SI	Signal unit for CO2 gas alarm; second warning station	208.2003	
CO2-WG-VE	Distribution box for CO2 gas alarm system	208.2005	
CO2-WG-SB-30	Protective bracket b=30 mm for CO2 sensor	208.2006	
CO2-WG-SB-80	Protective bracket b=80 mm for CO2 sensor	208.2018	
CO2-WG-KB	Control cable for CO2 gas alarm system (price per m)	208.2007	
CO2-WG-HS	Warning sign for CO2 gas alarm system	208.2008	
CO2-WG-BL/WH	Alarm light with warning horn 230 V/50 Hz	208.2019	
CO2-WG-LWT	Illuminated warning sign 230 V/50 Hz	208.2020	



208.2017



208.2016



208.2020

208.2005



208.2001

208.2002

CO2 Gas Alarm System SYS-CO2

This specially designed system is ideal for monitoring fermentation cellars and workrooms in wineries and beverage facilities. It can be connected to up to 3 CO2 monitoring sensors and, optionally, to as many as 4 alarm devices (flashing lights and warning horns). Alarm status, CO2 concentrations and other information are shown on a 2-line LCD display. The integrated keypad can be used to adjust the configuration in line with operational requirements.

Features:

- ▶ Central monitoring unit with LCD display
- ▶ Mains supply 230 V/50Hz; internal 24VDC, 5 resp. 15VA
- ▶ 3 external CO2 sensors 4... 20mA, 0... 5 Vol.% (SYS-CO2-SE) can be connected
- ▶ Up to 4 external alarm devices can be connected optionally
- ▶ 3 floating relay outputs 250VAC, 5 A (potential.free changeover contact SPDT)
- ▶ 1 analogue output 4... 20mA for the connection to the building control system
- ▶ 2 digital inputs for control functions

Designation	Details	Order no.	Unit price/€
SYS-CO2-WG5	CO2 monitoring unit, 1 alarm device WH/BL	208.3100	
SYS-CO2-WG15	CO2 monitoring unit, 4 alarm devices WH/BL	208.3101	
SYS-CO2-SE	Sensor unit 4... 20mA, 0,00... 5.00 Vol.%	208.3102	
SYS-CO2-SG	IP67 protective cap for sensor protection	208.3106	
SYS-CO2-WH/BL	Warning horn / flashing light combination 24VDC	208.3001	



208.3001



208.3102

208.3100
208.3101