

Compact CO - measuring device



FUNCTIONS:



FREELY ADJUSTABLE ALARM BOUNDARIES
INTEGRATED ACOUSTIC ALARM

GCO 100

Product-ID: 600062
 CO-measuring device

Description:

Carbon monoxide (CO) is created by the combustion of carbon. Depending on the effectiveness of the combustion (oxygen supply) and the temperature of the combustion more or less CO gas is created. The gas is inflammable and highly toxic. It is invisible, tasteless and scentless.

Even smallest concentrations are dangerous for humans!

Therefore a directive exists in Germany, which limits the maximum concentration of CO gas at work (MAK / AGW) to 30 ppm.

Application:

- Control of the air quality (e.g. at work place)
- Checking of heating systems, gas central-heating, fireplace
- Control of the air at maintenance work (tunnel, flue gas tract, ...)
- Detection of CO in the breath of smoker (% CO Hb)
- Cognition of CO poisoning i.e. at burnt offering (fire fighters, ...)

Specification:

Measuring principle:	electrochemical CO measuring cell		
Measuring range:	0 ... 1000 ppm CO concentration		
Display ranges:	0 ... 1000 ppm CO concentration 0 ... 1250 mg/m ³ CO concentration 0 ... 60.0 % CO Hb (estimation via exhaled breath gas)		
Resolution:	1 ppm, 1 mg/m ³ or 0.1 % CO Hb		
Measuring element:	integrated in device, measuring inlet at front plate, with inner thread for accessories screw in		
Life time:	>5 years at proper usage at air suggested test interval: every 6 months (depending on precision requirements)		
Accuracy: (at range 0 ... 500 ppm)			
linearity:	< ±5 % of measured value ±1 digit		
repeatability:	< ±5 % of measured value ±1 digit		
Interference: (extract)	Concentration (ppm)	residence time (min.)	display (ppm)
sulphur dioxide	50	600	<1
nitrogen dioxide	50	900	-1
nitric oxide	50	5	8
hydrogen	100	5	20
carbon dioxide	5000	5	0
Display:	approx. 11 mm high, 4½-digit LCD-display		
Pushbuttons:	3 membrane keys		
Nominal temperature:	25 °C		
Ambient condition:	-10 ... +50 °C, 15 ... 90 % RH (non condensing)		
Storage temperature:	-10 ... +50 °C		

HIGHLIGHTS:

- 3 display units selectable (ppm, mg/m³ and % CO Hb)
- Alert at exceeding the maximum concentration at work (MAK/AGW)
- Automatic zero point adjustment, max. value memory, hold function
- Interface for RS232- or USB-adapter
- Low power consumption (>1000 hours with normal 9 V-battery)
- Battery or power adapter operation, Power-Off-function
- External switching module for 230 V/10 A (= GAM 3000) directly plugable
- Integrated measuring element - 3 years warranty for the sensor
- incl. calibration protocol

THIS DEVICE MIGHT BE USE AS MONITORING DEVICE FOR THIS APPLICATIONS, HOWEVER, IT DOES NOT REPLACE ANY CONTROL DEVICE LIABLE TO REGISTRATION.

Power supply:	9 V-battery as well as additional d.c. connector for external 10.5 - 12 V direct voltage supply. (suitable power supply: GNG 10 / 3000)
Power consumption:	<0.25 mA (>1000 operating hours)
Housing:	impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	approx. 155 g
Scope of supply:	Device, battery, manual

Accessories and spare parts:

ESA 100

tube-adapter/flow diverter to screw in front plates.

ZOT 369

T-piece

GRV 100

non return valve

MSK 100

mouth peace of plastic

GAS 100

extension set for exhaled air control (consisting of ESA100, ZOT369, GRV 100 and 5x MSK100)

GZ-10

test gas cap GCO (for controlled flow with test gas)

GZ-02

gas bottle with 12l test gas: 30 ppm CO

GZ-03

gas bottle with 12l test gas: 300 ppm CO

GZ-04

gas valve unit MiniFlo for gas bottles with 12l

GB 9 V

spare battery 9 V / approx. 300mA/h, type IEC 6F22

GLI 9 V

Lithium battery 9 V / approx. 1200 mA/h

GKK 3000

case (275 x 229 x 83 mm) with punched lining

USB 3100 N

interface converter to USB, electrical isolated

GAM 3000

switching module for 230 VAC/10 A

