CARBON MONOXIDE (CO) METER

AUTOOFF
HOLD
MAXALARM
MIN MAX

HIGHLIGHTS:

- 3 display units can be selected (ppm, mg/m³ and % CO Hb)
- Warning if the maximum workplace concentration (MAK/AGW) is exceeded
- Incl. interface
- Incl. test protocol

THE DEVICE IS FOR CHECKING ONLY.
IT DOES NOT REPLACE A MONITORING DEVICE THAT REQUIRES APPROVAL!

GCO 100

Item No. 600062

Compact portable CO instrument with alarm

GENERAL:

Carbon monoxide (CO) is produced when carbon is burned. Depending on the effectiveness of the combustion (oxygen supply) and the combustion temperature, more or less CO gas is produced. The gas is flammable and highly toxic. It is invisible, tasteless and odorless.
Even the smallest concentrations are dangerous for humans!
Therefore, there are guidelines in Germany about the maximum workplace concentration (MAK/AGW) of CO gas: 30 ppm

APPLICATION:

- Monitoring of air quality (e.g. in the workplace)
- Control of heating systems, gas boilers, fireplaces
- Air monitoring during maintenance work (tunnels, exhaust gas routes, ...)
- Detection of CO in the breath of smokers (% CO Hb)
- Detection of CO poisoning, e.g. in the case of fire victims (fire departments, etc.)

TECHNICAL SPECIFICATIONS:

Measuring principle:	electrochemical CO measuring cell
Measuring range:	0..1000 ppm CO concentration
Display areas:	0..1000 ppm CO concentration 0..1250 mg/m³ CO concentration 0..60.0 % CO Hb (estimate via breathing air)
Resolution:	1 ppm, 1 mg/m³ or 0.1 % CO Hb
Sensor element:	Integrated in the device, frontal sensor opening with internal thread for screwing on accessories
Lifespan:	> 5 years when used properly in air; Recommended check: every 6 months (depending on of the accuracy requirements)
Accuracy (in the range 0..500 ppm)	
Linearity:	<± 5 % of the measured value ± 1 digit
Repeatability:	<± 5 % of the measured value ± 1 digit
Cross-sensitivities (excerpt)	

	Conc. (ppm)	Exposure time (min.)	Display (ppm)
Sulfur 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
Control elements:	3 membrane buttons
Nominal temperature:	25 °C
Working conditions:	-10 .. + 50 °C, 15..90 % RH (non-condensing)
Storage temperature:	-10 .. + 50 °C
Interface:	Serial interface, can be connected directly to the RS232 or USB interface of a PC via a galvanically isolated interface converter.
Power supply:	9 V battery and power supply socket for external 10.5..12 V DC voltage. (suitable power supply unit: GNG 10/3000)
Battery life:	> 1000 h
Housing:	Made of impact-resistant ABS, membrane keyboard, transparent panel, integrated pop-up clip
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	approx. 155 g
Scope of delivery:	Device, battery, test report, operating instructions

ACCESSORIES OR SPARE PARTS:

ESA 100
Item No. 603013
Tube adapter/flow diverter, for screwing into the front plate of the GCO100

ZOT 369
Item No. 603094
T-piece for plugging onto ESA 369/ESA 100

GRV 100
Item No. 603093
Check valve for attaching to ZOT 369 T-piece

MSK 100
Item No. 603012
Mouthpiece for breathing air measurement

GAS 100
Item No. 603587
Supplementary set for breathing air control (consisting of ESA 100, ZOT 369, GRV 100 and 5 pieces MSK 100)

GZ-10
Item No. 603133
Test gas cap GCO (for controlled gas flow GCO 100)

GZ-02
Item No. 606710
Gas cylinder with 12 l test gas: 30 ppm CO

GZ-03
Item No. 606711
Gas cylinder with 12 l test gas: 30 ppm CO

GZ-12
Item No. 479183
Gas cylinder with 12 l test gas: N_2 for CO and CO_2-calibration at 0 ppm

GZ-04
Item No. 603570
Gas valve unit MiniFlo for 12 l gas bottles, 0.5 - 1.5 l/min

GB 9 V
Item No. 601115
Replacement battery 9 V, type IEC 6F22

GKK 3000
Item No. 601048
Device case with soft cutouts for 1x GMH 3000, 275 x 229 x 83 mm (W x H x D)

USB 3100 N
Item No. 601092
Interface converter GMH3xxx <=> PC, USB, galvanic isolation