

## CARBON MONOXIDE (CO) METER



**HIGHLIGHTS:**

- 3 display units can be selected (ppm, mg / m<sup>3</sup> 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:**

<b>Measuring principle:</b>	electrochemical CO measuring cell		
<b>Measuring range:</b>	0..1000 ppm CO concentration		
<b>Display areas:</b>	0..1000 ppm CO concentration 0..1250 mg / m <sup>3</sup> CO concentration 0..60.0 % CO Hb (estimate via breathing air)		
<b>Resolution:</b>	1 ppm, 1 mg / m <sup>3</sup> or 0.1 % CO Hb		
<b>Sensor element:</b>	Integrated in the device, frontal sensor opening with internal thread for screwing on accessories		
<b>Lifespan:</b>	> 5 years when used properly in air; Recommended check: every 6 months (depending on of the accuracy requirements)		
<b>Accuracy (in the range 0..500 ppm)</b>			
<b>Linearity:</b>	<± 5 % of the measured value ± 1 digit		
<b>Repeatability:</b>	<± 5 % of the measured value ± 1 digit		
<b>Cross-sensitivities (excerpt)</b>	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
<b>Display:</b>	approx. 11 mm high, 4½-digit LCD display		
<b>Control elements:</b>	3 membrane buttons		
<b>Nominal temperature:</b>	25 °C		
<b>Working conditions:</b>	-10 .. + 50 °C, 15..90 % RH (non-condensing)		
<b>Storage temperature:</b>	-10 .. + 50 °C		
<b>Interface:</b>	Serial interface, can be connected directly to the RS232 or USB interface of a PC via a galvanically isolated interface converter.		
<b>Power supply:</b>	9V battery and power supply socket for external 10.5..12 V DC voltage. (suitable power supply unit: GNG 10/3000)		
<b>Battery life:</b>	> 1000 h		

<b>Housing:</b>	Made of impact-resistant ABS, membrane keyboard, transparent panel, integrated pop-up clip
<b>Dimensions:</b>	142 x 71 x 26 mm (H x W x D)
<b>Weight:</b>	approx. 155 g
<b>Scope of delivery:</b>	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<sub>2</sub> for CO and CO<sub>2</sub>-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