Handheld instrument
Display/Controller
Logger/EASYBus
Transmitter
Temperature probe
Simulator
Alarm/Protection, Level

COMPACT CO - MEASURING DEVICE

COMPACT AIR OXYGEN MEASURING DEVICE

FUNCTIONS:

AUTO OFF

HOLD

MAX ALARM

MIN MAX

HIGHLIGHTS:

• 3 display units selectable (ppm, mg/m³ and % CO Hb)

• Alert at exceeding the maximum concentration at work (MAK/AGW)

• incl. interface

FUNCTIONS:

AUTO OFF

BAT

FOR DIVING APPLICATIONS

THE DEVICE IS ONLY INTENDED FOR CONTROL PURPOSES FOR THESE APPLICATIONS. IT IS NOT A REPLACEMENT FOR A MONITORING DEVICE SUBJECT TO AUTHORISATION!

GCO 100
Product-ID: 600062
CO-measuring device

General:

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, ...)

Specifications:

Measuring principle:	electrochemical CO measuring cell
Measuring range:	0 ... 1000 ppm CO concentration
Display ranges:	0 ... 1000 ppm CO concentration 0 ... 1250 mg/m³ CO concentration 0 ... 60.0 % CO Hb (estimation via exhaled breath gas)
Resolution:	1 ppm, 1 mg/m³ or 0.1 % CO Hb
Measuring element:	integrated in device, measuring in-let 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

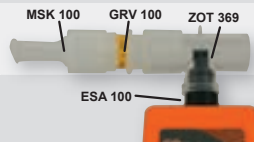|	
Display:	approx. 11 mm high, 4½-digit LCD-display
Pushbuttons:	3 membrane keys
Nominal temperature:	25 °C
Ambient condition:	-10 ... +50 °C, 15 ... 90 % RH (non condensing)
Storage temperature:	-10 ... +50 °C
Serial interface:	Serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter
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
Product-ID: 603013
tube-adapter/flow diverter to screw in front plates.

ZOT 369
Product-ID: 603094
T-piece

GRV 100
Product-ID: 603093
non return valve

MSK 100   GRV 100   ZOT 369

ESA 100

MSK 100
Product-ID: 603012
mouth peace of plastic

GAS 100
Product-ID: 603587
extension set for exhaled air control (consisting of ESA100, ZOT369, GRV 100 and 5x MSK100)

GZ-10
Product-ID: 603133
test gas cap GCO (for controlled flow with test gas)

GZ-02
Product-ID: 603569
gas bottle with 12l test gas: 30 ppm CO

GZ-03
Product-ID: 603123
gas bottle with 12l test gas: 300 ppm CO

GZ-04
Product-ID: 603570
gas valve unit MiniFlo for gas bottles with 12l

GB 9 V
Product-ID: 601115
spare battery 9 V / approx. 300mA/h

GLI 9 V
Product-ID: 601117
Lithium battery 9 V / approx. 1200 mA/h

GKK 3000
Product-ID: 601048
case (275 x 229 x 83 mm) with punched lining

USB 3100 N
Product-ID: 601092
interface converter to USB, electrical isolated

GAM 3000
Product-ID: 601132
switching module for 230 VAC/10 A

GOX 100
Product-ID: 600142
for universal applications

General:

• 1-button calibration
• Automatic power-off
• Min-/max- value memory
• Incl. sensor GOEL 370
Note: not for under water use (Rebreathers)

GOX 100T
Product-ID: 600157
for diving applications

General:

• 1-button calibration
• MOD-Display (Maximum Operating Depth)
• HOLD function
• Incl. sensor GOEL 370
Note: not for under water use (Rebreathers)

Specifications:

Measuring range:	0.0 ... 100.0 % O$_2$
Accuracy typ.:	±0.1 % O$_2$ ±1 digit, calibrated device (range from 15 ... 40 % O$_2$)
MOD (GOX 100T):	0 ... 100 m / 0 ... 199 ft
Sensor Connection:	0.7 m jack-connector cable
Sensor	Oxygen-partial pressure probe, mounted in external sensor housing
Warranty:	12 months
Working pressure:	0.5 ... 2.0 bar abs.
Over-/under-pressure:	max. 0.25 bar (pressure difference)
Working temperature:	0 ... 45 °C (sensor), -20 ... +50 °C (device)
Relative humidity:	0 ... 95 % RH
Power supply:	9 V battery
Power consumption:	approx. 120 µA (over 2500 h)
Display:	3½-digit, 13 mm high LCD-display
Housing:	ABS-enclosure, front side IP65
Dimensions:	approx. 106 x 67 x 30 mm (H x W x D)
Weight:	approx. 185 g
Scope of supply:	Device incl. sensor, tube-adaper, t-piece, battery

Variants:

GOX 100-LACK
Product-ID: 602047
with encapsulated PC board
(for applications where condensation is possible)

GOX 100-T-LACK
Product-ID: 604660
with encapsulated PC board
(for applications where condensation is possible)