

Product information

Handheld

**G1910-02 / G1910-20
 Compact CO₂ monitor**

With integrated sensor and alarm



- Made in Germany
- wide measuring range:
 up to 19999 ppm / 2 % CO₂ (variant -20)
- rechargeable battery via Micro USB port: 24 hours of operation
- loud 2-level alarm, acoustical or visual
- backlit display
- Ideal for air quality and air hygiene monitoring
- Measurement of the CO₂ load over 8 hours average TWA
- with metal clip and carrying strap
- with calibration connection

Features

Compact CO₂ monitor with alarm for many applications in air quality monitoring, green houses, energy management and for research and education.

The CO₂ is measured with a high-class non-dispersive infrared (NDIR) sensor via opening at instruments head.

Simultaneous display of time weighted average exposure over 8 hours (TWA) or 15 minutes (STEL).

CO₂ – Dangerous at concentration > 3%

The G 1910 is an ideal measuring warning instrument for moderate but non-dangerous levels – it is no replacement for personal safety equipment to be used in areas with potentially dangerous atmosphere.

ATTENTION:

Never enter potentially dangerous areas where CO₂ may exceed 3% or 30000 ppm CO₂ without additional personal safety equipment!

Applications

Monitoring of CO₂ for professions that are subject to increased exposure: CO₂ dosimeter over 8 hours average TWA. Very mobile due to belt clip and carrying strap and 24h battery life!

Air hygiene monitoring with two adjustable alarm thresholds, the first one can be used as ventilation alarm - in case of alarm the device beeps and flashes. For a forced ventilation the beeping can be suppressed for 5 minutes by pressing a button. Continuous operation with USB cable possible.

Traceable reference instrument for testing the usability and function of simpler CO₂ monitors.

Technical data

G1910-02		
Range	0..2000 ppm precision	Maximum up to 10000 ppm / 1.000 %
Precision	±70 ppm CO ₂ ±3% of reading)	
G 1920-20		
Range	0..19999 ppm 0.000..2.000 %	0.000..2.000 % (expanded to 3.200 %)
Precision	±200 ppm CO ₂ ±3% of reading	
Measuring cycle	2 seconds	
Pressure dependence	+ 1.6 % of value per kPa from normal pressure	
Sensor life	>15 years	
Display	3-lines segment-LCD, additional symbols, illuminated (white, lighting time adjustable)	
Additional functions	Min/max/hold, TWA or STEL-calculation (average over 24 hours or 15 mins), 2-level alarm (optical and acoustical)	
Reference	Adjustment at 400 ppm clean dry air or test gas	
Housing	Break-proof ABS-housing, IP30	
Dimensions	108 x 54 x 28 mm	
Weight	150 g inc. battery	
Housing equipment	Metal clip and carrying strap	
Working condition	0..50 °C; 0..85 % r.H.	
Storage temperature	-20..70 °C	
Power supply	2 x AA-rechargeable NiMH batteries (scope of delivery), Consumption ~ 50 mA, Operation time > 24 hours for NiMH batteries (without backlight). Recharging time ~ 8 hours	
Battery indicator	4 state battery status display Charge warning: "BAT"	
Charging port	Micro USB socket, incl. connection cable to USB 2.0 type A, for use with common USB chargers.	

Product information

Accessories / Calibration

Type	Art. No.	Description
GZ-18	476698	Gas cylinder with 12 l test gas: 5000 ppm CO ₂
GZ-19	476699	Calibration set for G 1910: MiniFlo valve for 12 l gas cylinders, quick-connect adapter 4 mm, closing screw, gas-bezel
GZ-20	479767	Gas connection for G 1910: Quick-connect adapter Ø6 mm, spare closing screw, gas bezel



Calibration with test gas GZ-18 and adapter GZ-19

Type	Art. No.	Description
G1000 BASE	481885	G 1000 table base and wall suspension
GKK1002	411907	Carrying case G1000 series 235 x 185 x 48 mm



G1000 BASE table base and wall suspension with connection possibility for USB cable

Scope of delivery

Device incl. Battery
 Hand strap with carabiner
 USB cable for standard chargers with USB 2.0 A socket
 Quick guide

Ordering code

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G1910 - -

1. Measuring range	
02	0..2000 (max. 10000) ppm CO ₂ / 0.000..0.200 (max 1.000) % CO ₂
20	0..19999 ppm CO ₂ / 0.000..2,000 % CO ₂
2. Model	
	Device with metal clip and carrying strap
AQ	Device with metal clip, setting: warn 1000 ppm / alarm 2000 ppm, permanent operation
3. Scope of supply	
	Device incl. sensor, manual, rechargeable batteries, USB charging-cable (without mains adapter)
B	Device incl. sensor, manual, rechargeable batteries, USB charging-cable (without mains adapter), G1000_Base

Indoor Air Quality-Variant G1910-02-AQ-B

The variant **G1910-02-AQ-B (Art.Nr.482018)** is particularly suitable for monitoring the quality of indoor air, for example in classrooms and offices. This version incl. table stand / wall bracket is ready for operation and is preset to the two alarm levels for continuous operation (Attention: USB charging cable included, but no power supply unit): il):

- 1000 ppm („Warn level yellow“): **Ventilation recommended**
 Device beeps (beep...beep...beep... and display flashes (can be suppressed by pressing the key for 5min)
- 2000 ppm („Alarm level red“): **Ventilate!**
 Alarm continuous tone and display flashes (can be suppressed by pressing the key for 5min)