

## Family Datasheet

### ECO 420-02 / ECO 420-20

#### Compact CO<sub>2</sub> monitor

- modern and functional housing
- Wide measuring range: up to 19999 ppm / 2% CO<sub>2</sub> (variant -20)
- Rechargeable via micro USB socket
- 24 hours battery life
- Backlight
- First alarm level by pressing the "5 minutes silent" button for ventilation process
- Ideal for air quality and air hygiene monitoring
- Hold-function to freeze measured values
- Min/Max-function for minimum and maximum recorded measured values
- with metal belt clip and lanyard
- with calibration connection
- Made in Germany



#### DESCRIPTION

Compact CO<sub>2</sub> monitor with alarm for many applications in air quality monitoring, green houses, energy management and for research and education.

The CO<sub>2</sub> 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).

CO<sub>2</sub> – Dangerous at concentration > 3%

The ECO420 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 CO<sub>2</sub> may exceed 3% or 30000 ppm CO<sub>2</sub> without additional personal safety equipment!



ECO 420 front

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## Compact CO2 monitor

### Display

Thanks to the backlight, the three-line LCD display offers ergonomic wide-angle visibility - by day and by night.

The HOLD function enables the display values to be frozen.

### Power supply

2 powerful AA NiMH rechargeable batteries, the energy-saving design and the configurable automatic switch-off function ensure long operation.

Configurable LCD backlight for further energy-saving options.

## TECHNICAL DATA

### Measurement specifications

	ECO 420-02	ECO 420-20
Measuring range	0..2000 ppm precision (maximum up to 10000 ppm /1,000%)	0..19999 ppm; 0.000..2.000 % (expanded to 3.200 %)
Accuracy (nominal temperature)	±70 ppm CO <sub>2</sub> ±3% of reading)	
Measuring cycle	2 seconds	
Pressure dependence	+ 1.6 % of value per kPa from normal pressure	
Sensor life	> 15 years	

### General specifications

Display	3-line with battery status indicator, Backlight, protected by shatterproof screen, overhead display at the push of a button
Power supply	2 x AA-rechargeable NiMH batteries (scope of delivery)
Power consumption	~ 50 mA
Battery life	time > 24 hours for NiMH batteries (without backlight)
Automatic Power-Off	Yes, configurable by the user
Operating conditions	0 to 50 °C; 0 to 85 % r.h. (non-condensing)
Storage temperature	-20 to 70 °C (without batteries)
Protection class	IP30
Dimensions	108 x 54 x 28 mm
Weight	approx 160 g
Housing	break-proof ABS, polyester (front panel), Metal clip and carrying strap

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### Scope of delivery

- Hand-held measuring device with permanently installed sensor (see order codes)
- 2x AA NiMH rechargeable batteries
- Manual

### ORDERING CODES

ECO420		
Compact CO2 monitor with integrates sensor and alarm (earlier G 1910)		
1	<b>Measuring range</b>	
	-02	0..2000 (max. 10000) ppm CO <sub>2</sub> / 0,000..0,200 (max 1,000) % CO <sub>2</sub>
	-20	0..19999 ppm CO <sub>2</sub> / 0,000..2,000 % CO <sub>2</sub>
2	<b>Version</b>	
	-	Device with metal clip and lanyard
	-AQ	Device with metal clip, setting: warning 1000 ppm/alarm 2000 ppm, continuous operation

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#### Standard-Articles

ECO420-02	Compact CO <sub>2</sub> monitor with alarm Measuring range: 0 ... 2000 (max 10000) ppm CO <sub>2</sub> / 0.000 ... 0.200 (max 1,000) % CO <sub>2</sub> Scope of delivery: Device incl. sensor, manual, rechargeable batteries, USB charging-cable (without mains adapter)	<b>Art.Nr. 486768</b>
ECO420-20	Compact CO <sub>2</sub> monitor with alarm Measuring range: 0 ... 19999 ppm CO <sub>2</sub> / 0.000 ... 2.000 % CO <sub>2</sub> Scope of delivery: Device incl. sensor, manual, rechargeable batteries, USB charging-cable (without mains adapter)	<b>Art.Nr. 486769</b>
ECO420-20-AQ	Compact CO <sub>2</sub> monitor with alarm Measuring range: 0 ... 19999 ppm CO <sub>2</sub> / 0.000 ... 2.000 % CO <sub>2</sub> Scope of delivery: Device incl. sensor, manual, rechargeable batteries, USB charging-cable (without mains adapter)	<b>Art.Nr. 487102</b>

#### Accessories

##### Ersatzteile:

GB-AA-2	Ersatzbatterien 2x AA	<b>Art.-Nr. 600704</b>
<b>Weiteres Zubehör:</b>		
G1000-BASE	G 1000 combined table base / wall suspension	<b>Art.-Nr. 481885</b>
GKK1000	Carrying case	<b>Art.-Nr. 611603</b>

For further articles, please visit the Senseca website.