



aces

PULSATING THE FUTURE

Schützen

Carbon Dioxide
gas detector



Schützen Carbon Dioxide Gas Detector

Carbon Dioxide Gas Detection.



The Schützen iGas CO₂ Gas Detector is the ideal solution for personal carbon dioxide detection.

The device is light weight and compact with an ergonomic design, making it an ideal personal detection device. The Schützen iGas CO₂ portable gas detector is a maintainable device with replaceable batteries, reducing monitor downtime and environmentally friendly. Thus delivering an unlimited operational lifetime.

Live Gas Readings and Easy Interface.

With two-buttons operation, adjustable alarm settings and an easy-to-read display the Schützen iGas CO₂ is simple to use. Just turn it on for the first time, and the monitor does the rest. Users can also toggle between modes and different readings with one button. Using the default settings from the factory there is no need to set up or program the monitor.

The Risks of Carbon Dioxide

Carbon dioxide is a natural occurring gas that usually takes up 0.04% of the Earth's atmosphere. This gas is colorless, odorless and tasteless, making it indistinguishable by humans.

Although Carbon Dioxide is not toxic or flammable by nature, it can expand up to 535 times its volume when changing from liquid or solid form to gas. This means that in enclosed areas, even a small leak in CO₂ tanks or cylinders can quickly increase the CO₂ levels to 3-5% of air, which is dangerous.

CO₂ poisoning happens when we breathe in air with 5% or more CO₂ by volume. Common symptoms include headache, dizziness, weakness, chest pain, and confusion. It can even cause the heart rate to increase to 300% of its normal rate.

Even if volume of CO₂ leaked is not enough to cause bodily harm, we exhale 3% CO₂, which can displace the oxygen present in the air in enclosed spaces, leading to oxygen deficiency.

Under the NIOSH, recommended Exposure Limit (REL) for carbon dioxide is 5,000 ppm over 8-hour TWA and 30,000 ppm over 15-minute ceiling.



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Carbon dioxide Gas Detector

Display Option
0- 50,000 ppm Range
~ 0 - 5% Vol Range

24 months warranty

One full charge last 14 days

Rechargeable Battery

Long life sensor technology



Applications

- Manufacturing
- Pharmaceutical
- Chemical Laboratories
- Agriculture
- Food & Beverages
- Power Plants
- Aviation



Accessories



EXTERNAL
PUMP



EXTENSION
PROBE

Schützen

Carbon Dioxide Gas Detector

Specifications

Physical characteristics	
Size	Size: 30(W) x 50(H) x 35(D)mm , Weight: 135g
Weight	135g
Operation	Two-button
Environmental Protection	IP67
Carrying attachments	Stainless steel alligator clip
Case material	Shock resistant polycarbonate rubber enclosure
Display	Digital LCD display, LCD Backlight, LED Indicator
Display info	Live Reading, remaining battery life
Monitoring	
Sensor ranges	0-5.0%vol (50,000ppm)
Resolution	0.01%vol / 100ppm
Power	
Power source	Rechargeable Li-ion(polymer) power supply unit (500mAh)
Battery life indication	Yes
Battery life	7 days (Charging time: 100mins)
Alarms	
Visual alarm	Yes - red led
Audible alarm	Yes - 90db
Vibrating alarm	Yes
Alarm set points	Low: 5000ppm/0.5% Vol, High: 10000ppm/0.1% Customizable settings available; please provide upon ordering or configure use settings via software and the IR Connect or test station accessories
Data storage	
Data logging	Logs last 30 events
Data retention	Yes - Direct USB Link to PC
Data transmission	Infrared
Certifications/Approvals	
Electromagnetic compatibility	EMC directive(2014/30/EU), ROHS 2
Approved temperature ranges	20°C ~ +50°C
Environment	5%-95%RH(non-condensing)



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