



aces
PULSATING THE FUTURE

Schützen

Chlorine gas
detector



Schützen Chlorine Gas Detector

Chlorine Gas Detection.



Health risks of chlorine gas

Chlorine gas is a severe, potentially fatal respiratory irritant that was used during World War I to cause mass casualties.

Symptoms of exposure

- Blurred vision
- Burning sensation in the nose, throat and eyes
- Coughing, difficulty breathing and tightness of the chest
- Nausea and vomiting
- Irritation of the skin
- Pulmonary edema (a potentially fatal accumulation of fluid in the lungs)

Properties of chlorine gas

Chlorine gas is yellow-green, smells like bleach and is heavier than air, so it stays close to the ground.

Sources: Centers for Disease Control and Prevention, Canadian Centre for Occupational Health and Safety, Associated Press

BAY AREA NEWS GROUP

The Schützen SGT-P CL2 Gas Detector is the ideal solution for personal chlorine detection.

The device is light weight and compact with an ergonomic design, making it an ideal personal detection device. The Schützen SGT-P CL2 portable hydrogen 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 one-button activation, adjustable alarm settings and an easy-to-read display the Schützen SGT-P CL2 is simple to use. Just turn it on for the first time, and the monitor does the rest. Using the default settings from the factory there is no need to set up or program the monitor. Unlike many portable chlorine gas detectors available on the market, the Schützen SGT-P CL2 provides the user with current live gas readings rather than what time is left on the battery.

The Risks of Chlorine

Chlorine is common chemical for treating ballast water. As low as 1000 ppm is fatal after a few breaths and the effects will be felt in seconds. After you've inhaled chlorine, your eyes and skin will become irritated and you'll find it difficult to breathe with a tightening chest, stinging throat and persistent cough.

Chlorination in most case apply a dose of about 2 mg/l residual chlorine which is effective for treating ballast tanks and safe as long as guidelines are followed correctly. However, some solution use Sodium Hypochlorite with a concentration of up to 10 ppm, which may leave dangerous gas residue in the tanks after the water is pumped out.

The ballast tank may appear clear however the residue or mud can contain dangerous levels of chlorine that's heavier than air and can't escape through ventilation. Crews may enter a tank which they believe to be clear of gas - even when the tank has been closed for a long period of time.

Even if the exposure isn't immediately fatal, long-term exposure to chlorine will built up fluid in the lungs causing Pulmonary edema and lung cancer.

Under the NIOSH, recommended Exposure Limit (REL) for chlorine is 0.5 ppm over 10-hour TWA and 0.5 ppm over 15-minute ceiling.

Schützen Chlorine Gas Detector

0 – 20PPM Range

24 months warranty

**Long life sensor
technology**



Applications

- Manufacturing
- Water waste treatment plant
- Pharmaceutical
- Chemical Laboratories
- Electronics
- Food & Beverages
- Oil refinery
- Scrubber Cleaning

Accessories



STANDARD
PACKAGE



EXTERNAL PUMP



EXTENSION
PROBE



IR
COMMUNICATOR

Schützen Hydrogen Gas Detector

Specifications

Physical characteristics	
Size	Size:54mm(W)x91mm(H)x32mm(D)
Weight	93g
Operation	One-button
Carrying attachments	Stainless steel alligator clip
Case material	Shock resistant polycarbonate rubber enclosure
Environmental protection	IP 67 (third party certified)
Display	Digital LCD display, LCD Backlight, LED Indicator
Display info	Live Reading, remaining battery life
Monitoring	
Sensor ranges	0 - 20ppm
Resolution	1ppm
Power	
Power source	Lithium battery 3.6V
Battery life indication	Yes
Battery life	24 months based on 2 minutes alarm per day, Replaceable
Alarms	
Visual alarm	Yes - red led
Audible alarm	Yes - 90db
Vibrating alarm	Yes
Alarm set points	Pre-programmed default settings: 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 - IR Link to PC
Data transmission	Infrared
Certifications/Approvals	
Explosive atmospheres	IECEx Ex ia IIC T4 Ga, ATEX II 1 G Ex ia IIC T4 Ga, INMETRO Ex ia IIC T4 Ga, Ex ia IIC T4
Approved temperature ranges	-40°C~+50°C(forToxic)/-35°C~+50°C(forO2)
Environment	5%-95%RH(non-condensing)

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