

# SC - 8000



Toxic gas monitor



## Features

- Real time detection with ppm range
- large digital display with backlight
- Loud alarm buzzer with 95dB
- 2 Steps adjustable alarm volume
- Easy and simple operation
- Compact size and light weight
- ATEX intrinsically safe design EXia IIC T4
- Water and dust resistant IP67
- Datalogging standard

## Applications

- Semiconductor plants
- Petro chemical / Chemical plants
- Refineries
- Gas plant / Gas supplier services
- Utilities
- Personal monitoring
- Hazmat response
- Water / wastewater treatment

The SC-8000 sets the new industry standard for rugged, reliable portable toxic gas detection. It's compact light weight tough water proof and intrinsically safe design utilized features based on years of gas detection experience to assure that the instrument will be operated properly to check for gas leaks and protect workers as well as property in toxic gas detection applications.

Detection Principle	Electrochemical
<b>Alarm Type</b>	Gas Alarm: Latching, 2 alarm Failure Alarm: Flow failure, sensor failure, battery failure, circuit failure, calibration failure, setting current failure
<b>Alarm Display</b>	Lamp: LED's flash Buzzer: Alternating high and low pitch (gas alarm), Continuous sound (failure alarm) Display: Gas concentration on the display flashes (gas alarm), Alarm message on display flashing (failure alarm)
<b>Audible Alarm</b>	95dB(A) at 30cm
<b>Sampling Method</b>	Sample Draw, approx. 0.5L/min
<b>Display</b>	Digital LCD with auto backlight
<b>Operating Temp. &amp; Humidity</b>	-10 ~40°C, Humidity 20~88% RH (without condensing)
<b>Ingress Proof Rating</b>	IP-67
<b>Continuous Operation</b>	Lithium-ion battery: 25 hours, AA Alkaline battery: 18 hours
<b>Power Source</b>	Lithium-ion battery (3 hours charge time)
<b>Safety Rating</b>	Intrinsically safe; Exia IIC T4
<b>Dimension &amp; Weight</b>	6" W x 3.18" H x 6.45" D (154 W x 81 H x 164 D mm) 2.42 lbs
<b>Additional Features</b>	<ul style="list-style-type: none"> <li>• Self diagnosis system</li> <li>• Zero/Span adjustment (demand zero/auto zero selectable)</li> <li>• Indication to show energizing (pilot indicator and pump driving indicator)</li> <li>• IrDA communication, Data logger (interval, alarm trend, station ID control)</li> <li>• Peak value/Average value display, buzzer selector switch (2 steps high/low)</li> <li>• Bump test function</li> </ul>
<b>Approvals</b>	IECEX, ATEX, TIIS, CE mark
<b>Standard Accessories</b>	<ul style="list-style-type: none"> <li>• Lithium-ion battery unit BUL-8000</li> <li>• AC power charger (input: AC100V - AC240V 50/60Hz output: DC12V 1.25A)</li> <li>• Gas sampling hose (1m) with probe</li> </ul>
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>• Dry battery unit BUD-8000</li> <li>• Datalogging software</li> <li>• Waist strap</li> <li>• Aluminum carrying case</li> <li>• Sampling probe holder on the neck/shoulder strap</li> </ul>
<b>Warranty</b>	One year material and workmanship

Gas	Range	Resolution	Alarms
Ammonia (NH3)	0 - 75.0 ppm	0.5	A1:125.0 A2: 50.0
Arsine (AsH3)	0 - 0.200 ppm	0.001	A1: 0.050 A2: 0.100
Bromine (Br2)	0 - 1.00 ppm	0.01	A1: 0.30 A2: 0.60
Carbon Monoxide (CO)	0 - 75.0 ppm	0.5	A1: 25.0 A2: 50.0
Chlorine (Cl2)	0 - 1.50 ppm	0.01	A1: 0.50 A2: 1.00
Chlorine Trifluoride (CLF3)	0 - 1.00 ppm	0.01	A1: 0.30 A2: 0.60
Diborane (B2H6)	0 - 0.300 ppm	0.002	A1: 0.100 A2: 0.200
Fluorine (F2)	0 - 3.00 ppm	0.02	A1: 1.00 A2: 2.00
Germane (GeH4)	0 - 0.800 ppm	0.005	A1: 0.200 A2: 0.400
Hydrogen Bromide (HBr)	0 - 6.00 ppm	0.05	A1: 2.00 A2: 4.00
Hydrogen Chloride (HCl)	0 - 6.00 ppm	0.05	A1: 2.00 A2: 4.00
Hydrogen Cyanide (HCN)	0 - 15.0 ppm	0.1	A1: 4.0 A2: 10.0
Hydrogen Fluoride (HF)	0 - 3.00 ppm	0.02	A1: 1.00 A2: 2.00
Hydrogen Iodide (HI)	0 - 5.00 ppm	0.05	A1: 1.50 A2: 3.00
Hydrogen Peroxide	0 - 3.00 ppm	0.02	A1: 1.00 A2: 2.00
Hydrogen Selenide (H2Se)	0 - 0.200 ppm	0.001	A1: 0.050 A2: 0.100
Hydrogen Sulfide (H2S)	0 - 30.0 ppm	0.2	A1: 5.0 A2: 10.0
Nitrogen Dioxide (NO2)	0 - 15.0 ppm	0.1	A1: 5.0 A2: 10.0
Nitrogen Monoxide (NO)	0 - 100 ppm	1	A1: 25 A2: 50
Ozone (O3)	0 - 1.00 ppm	0.01	A1: 0.30 A2: 0.60
Phosphine (PH3)	0 - 1.00 ppm	0.01	A1: 0.30 A2: 0.60
Phosphorus Trifluoride (PF3)	0 - 10.0 ppm	0.1	A1: 2.0 A2: 4.0
Silane (SiH4)	0 - 15.0 ppm	0.1	A1: 5.0 A2: 10.0
Sulfur Dioxide (SO2)	0 - 6.00 ppm	0.05	A1: 2.00 A2: 4.00



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