

# RIKEN

# SINGLE TOXIC GAS MONITOR

## Model SC-01



### Features

- Smart interchangeable sensors
- Wide range of toxic gases
- Unique extender cable for remote monitoring
- Compact (2.5 x 5.2 x 1.2 in.)
- Lightweight, 7.6 ounces
- 250 hours of continuous operation
- Operates on 2 "AA" alkaline batteries
- Audible / visual / vibration alarms
- Datalogging standard
- Impact resistant protective rubber boot
- Intrinsically safe, CSA, C/US pending

### Applications

- Utilities
- Personal monitoring
- Refineries / petrochemical
- Chemical plants
- Hazardous material
- Water / wastewater treatment
- Semiconductor Plans

Built around RIKEN's latest smart sensor technology, the SC-01 is RIKEN's most versatile personal single toxic gas monitor. The sensors are interchangeable and automatically recognized by the instrument. Weighing only 7.6 ounces, it has many features which set it apart from the competition. For example, it can monitor Ammonia (NH<sub>3</sub>), Arsine (AsH<sub>3</sub>), Carbon Monoxide (CO), Chlorine (Cl<sub>2</sub>), Diborane (B<sub>2</sub>H<sub>6</sub>), Disilane (Si<sub>2</sub>H<sub>6</sub>), Germane (GeH<sub>4</sub>), Hydrogen Selenide (H<sub>2</sub>Se), Hydrogen Sulfide (H<sub>2</sub>S), and Phosphine (PH<sub>3</sub>). The SC-01 also has a unique extender cable where the sensor can be attached to the end of a 10 foot cable for quick response, remote monitoring.

The SC-01's large LCD display shows all gas readings, battery level, current time, and will automatically backlight in alarm conditions. Standard alarm types include vibration, visual, and audible alarms that can be set to latching or self-resetting. Controlled by a microprocessor, the SC-01 continuously checks itself for sensor connections, low battery, circuit trouble, low flow, and calibration errors. The batteries are simple to replace, requiring no tools to access the battery compartment. One set of AA alkaline batteries provides continuous operation for over 250 hours.

The SC-01 is equipped with datalogging capability as a standard feature which communicates through an IR port with an optional windows based datalogging software program. Calibration intervals and reminders are user adjustable and can be set to either go into alarm or to lock the user out of normal measurement mode once a calibration period has expired.



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# Model SC-01

Detection Principle	Electrochemical
Sampling Method	Diffusion, optional sensor extender cable
Display	Digital LCD, auto backlight during alarm
Alarm Operation	Latching and reset function
Alarms Types	Gas alarms : 1st, 2nd, STEL, TWA and OVER Trouble alarms : Sensor connection, low battery, circuit trouble, and calibration error
Alarm Methods	Gas alarms : Blinking lamp, intermittent buzzer, blinking gas values, vibration Trouble alarms : Blinking lamp, intermittent buzzer (two tones), display of trouble no vibration
Operating Temp. & Humidity	-20°C to +50°C (-4°F to 122°F) Below 95% RH (non-condensing)
Continuous Operation	More than 250 hours (at 25°C, no alarm)
Power Source	2 "AA" Alkaline dry cell batteries
Safety Rating	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C, D (pending)
Dimension & Weight	2.5" W x 5.2" H x 1.2" D (63 W x 131 H x 31 D mm), 7.6 ounces (215 g)
Case Material	Dust & splash resistant. RFI shielded high impact plastic with protective rubber boot
Controls	Three buttons : POWER, DISPLAY, AIR
Standard Accessories	<ul style="list-style-type: none"> <li>• Alligator clip</li> <li>• AA size alkaline batteries (2 each)</li> <li>• Impact resistant rubber boot</li> <li>• Manual</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>• Belt clip</li> <li>• Extender cable 3m</li> <li>• Datalogging software for PC</li> <li>• Extender cable 1m (coil type)</li> </ul>

Specifications subject to change without notice.

Gases & Detectable Ranges	
Standard Confined Space Gases	
Ammonia (NH <sub>3</sub> )	0 - 75 ppm
<del>Arsine (AsH<sub>3</sub>)</del>	<del>0 - 1.5 ppm</del>
Carbon Monoxide (CO)	0 - 75 ppm
Chlorine (CL <sub>2</sub> )	0 - 30 ppm 0 - 1.5 ppm
<del>Diborane (B<sub>2</sub>H<sub>6</sub>)</del>	<del>0 - 5 ppm</del>
<del>Disilane (Si<sub>2</sub>H<sub>6</sub>)</del>	<del>0 - 15 ppm</del>
<del>Germane (GeH<sub>4</sub>)</del>	<del>0 - 1.5 ppm</del>
<del>Hydrogen Selenide (H<sub>2</sub>Se)</del>	<del>0 - 5 ppm</del>
Hydrogen Sulfide (H <sub>2</sub> S)	0 - 30 ppm
Phosphine (PH <sub>3</sub> )	0 - 1 ppm
<del>Silane (SiH<sub>4</sub>)</del>	<del>0 - 15 ppm</del>
Sulfur Dioxide (SO <sub>2</sub> )	0 - 6 ppm
HCN	0-15ppm



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