

# RIKEN

# SINGLE TOXIC GAS MONITOR

## Model SC-01



### Features

- Smart interchangeable sensors
- Remote monitor capability by optional extender cable (3m)
- Compact and light weight  
63W x 131H x 31Dmm, 215g
- 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

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 215g, it has many features which set it apart from the competition. For example, it can monitor one specified gas of Ammonia (NH<sub>3</sub>), Chlorine (CL<sub>2</sub>), or Sulfur Dioxide(SO<sub>2</sub>). The SC-01 also has a unique extender cable where the sensor can be attached to the end of a 3 meter 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.



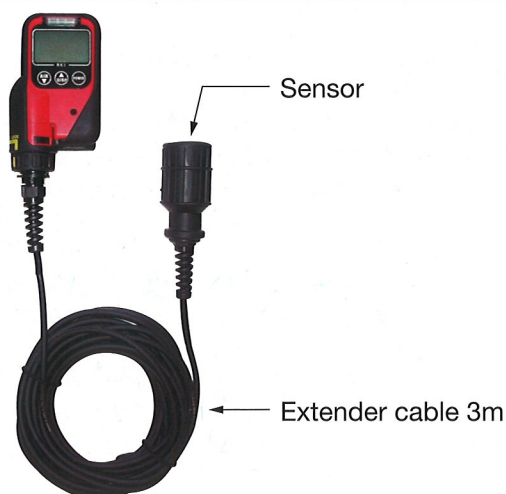
## RIKEN KEIKI

# SPECIFICATIONS FOR SINGLE TOXIC GAS MONITOR **Model SC-01**

Detection principle	Electrochemical cell
Measuring gas / range	Ammonia (NH <sub>3</sub> ) in air : 0-75ppm Chlorine (CL <sub>2</sub> ) in air : 0-3.0ppm Sulfur Dioxide (SO <sub>2</sub> ) in air : 0-6.0ppm Please specify one gas & range when your ordering
Alarm operation	Latching and reset function
Display	Digital LCD, auto backlight during alarm
Kinds of alarms	Gas alarm : 1st, 2nd, STEL, TWA, OVER Trouble alarm : Sensor connection, low battery, circuit error, calibration error
Alarm method	Gas alarm : Blinking lamp, intermittent buzzer, indication blinking, vibration Trouble alarm : Blinking lamp, intermittent buzzer (two tones) display of trouble, no vibration
Operating temperature	-20°C to 50°C
Operating humidity	Below 95%RH, non-condensing
Power source	AA size Alkaline batteries, 2 pcs
Continuous operating time	More than 250 hours (at 25°C, no alarm)
Explosion proof	Intrinsically Safe, Exia II BT3
Function	<ul style="list-style-type: none"> <li>• LCD manual backlight (automatic light at alarms)</li> <li>• STEL, TWA alarm function</li> <li>• Clock function</li> <li>• Datalogging function, IrDA communication to PC</li> </ul>
Standard accessories	<ul style="list-style-type: none"> <li>• Alligator clip</li> <li>• Rubber protector</li> <li>• AA size Alkaline batteries (2 each)</li> </ul>
Optional accessories	<ul style="list-style-type: none"> <li>• Belt clip</li> <li>• Datalogging software for PC</li> <li>• Extender cable 3m</li> </ul>
Dimensions	63(W) × 131(H) × 31(D)mm, without sensor top
Weight	Approx. 215g, including alligator clip and rubber protector (excluding Alkaline batteries)

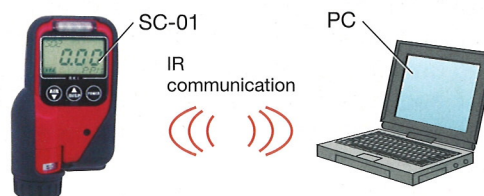
Specifications subject to change without notice.

## Remote monitor by optional extender cable 3m

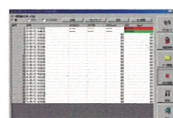


## Datalogging function

Direct IR communication from SC-01 to PC !

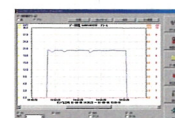


### Data summary



- Copy to spreadsheet
- Easy data management
- Max 180 days of datalogging

### Trend graph



- Gas concentration follow-up
- 15 minutes trend graph after gas alarm



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