



# SINGLE TOXIC GAS MONITOR

## LEADERS IN GAS DETECTION

Since 1977

## SC-8000 Model



### Features:

- Real time detection with ppm range
- Large digital and bar graph display with back light
- Loud alarm buzzer with 95dB
- 2 steps adjustable alarm volume
- Easy and simple operation
- Compact size and light weight
- ATEX Intrinsic safe design Exia IIC T4
- Water and dust resistant IP67
- Ergonomic design with waist strap for hands free operation
- Datalogging standard

### Applications:

- Semi conductor / LED / solar cell plants
- Petrochemical / chemical plants
- Refineries
- Gas plant / gas supplier services
- Chemical tanker
- Confined space
- Utilities
- Monitoring toxic gas in hazardous zone
- Leak check at maintenance work

The SC-8000 sets the new industry standard for rugged, reliable portable toxic gas detection. It's tough, water proof design utilises features based on years of gas detection design experience, to assure that the instrument will operate properly to protect workers and property in all kinds of harsh gas detection applications. The SC-8000 model has a powerful in-built suction pump.

The large, LCD display, shows a digital value of the component gas concentration. In loud environments the highly bright LED lamps are arranged in three directions making the unit visible from all angles.

Some of the most common toxic gases that the SC-8000 detects are silane ( $\text{SiH}_4$ ), phosphine ( $\text{PH}_3$ ), arsine ( $\text{AsH}_3$ ), ammonia ( $\text{NH}_3$ ), hydrogen chloride ( $\text{HCl}$ ), chlorine ( $\text{Cl}_2$ ) and hydrogen fluoride ( $\text{HF}$ ) and many others.



#### Head Office:

Unit 1 / 3 Deakin Street  
(PO Box 5904)  
Brendale QLD 4500 Australia  
Ph: +61 (0) 7 3481 9000

#### Perth Office:

Unit 5 / 30 Enterprise Crescent  
Malaga WA 6090 Australia  
Ph: +61 (0) 8 6184 7840  
[sales@controlequipment.com.au](mailto:sales@controlequipment.com.au)

#### Representatives/Offices in:

Sydney	Melbourne
Hobart	Adelaide
Auckland	Wellington

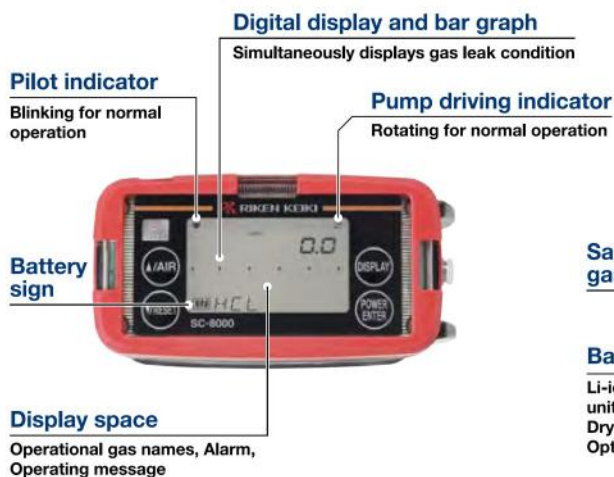
[www.controlequipment.com.au](http://www.controlequipment.com.au)

Target Gas Detection Range Alarm Point	Please refer to the table on the next page.		
Detection Principle	Electrochemical		
Types of Alarm	Gas Alarm:     Latching, 2 alarms Failure Alarm:   Flow failure, sensor failure, battery failure, circuit failure, calibration failure, setting current failure .		
Display of Alarm	Lamp:            High Definition LED Lights Flash Buzzer:          Gas Alarm—Buzzer sounds alternating between low and high pitch Failure Alarm—Buzzer sound is continuous Display:          Gas Alarm— Gas Concentration on the display flashes. Failure Alarm—Alarm message on the display flashes.		
Alarm Sound	More than 95dB (A) at 30 cm		
Sampling Method	Sample draw, approximately 0.5L / minute		
Display	Digital LCD with auto backlight Digital display (7 Segments) and digital bar graph (25 segments)		
Power Source	Lithium-ion battery:                 Standard 3 hours for full charge AA Alkaline battery (3 pieces): Optional		
Continuous Operation	Lithium-ion battery:                 More than 25 hours AA Alkaline battery:                 More than 18 hours		
Operating Temp & Humidity	-10°C ~ to +40°C, Humidity: 20~88% RH, non-condensing		
Dimensions & Weight	Approx 15cm x 8cm x 16cm (L x W x H), approx 1.1kg		
Ingress Proof Rating	Equivalent to IP67		
Explosion proof	Intrinsically safe Exia II CT4		
Approvals	IECEX, ATEX, TIIS CE Mark, all approvals submitted and pending		
Standard Accessories	Neck Shoulder Strap Gas Sampling Probe	Gas Sampling Hose (1m) AC Powered Charger	Instruction Manual Lithium-ion battery unit
Additional Features	Self Diagnosis Function Zero / Span Adjustment (Demand zero / Auto zero selectable) Indication to show energizing (pilot indicator and pump driving indicator) Bump test function IrDA Communication, Data logger (Interval, Alarm Trend, Station ID Control) Peak Value / Average Value Display, Buzzer Selector Switch (2 steps, high / low)		
Optional Accessories	Dry Battery Unit (BUD-8000) Data logging Software Waist Strap	Sampling Probe Holder on the neck / shoulder strap Carrying Box (Aluminium)	
Warranty	Two Years material and workmanship		

# Detectable Gas and Measuring Range for SC-8000 Model

Detectable Gas	Chemical Formula	Measuring Range (ppm)	Increments (ppm)	Preset Alarm (ppm)	
				1st	2nd
Ammonia	NH <sub>3</sub>	0~75.00	0.50	25.0	50.0
Arsine	AsH <sub>3</sub>	0~0.20	0.001	0.050	0.100
Bromine	Br <sub>2</sub>	0~1.00	0.01	0.30	0.60
Carbon Monoxide	CO	0~75.00	0.50	30.0	60.0
Chlorine	Cl <sub>2</sub>	0~1.50	0.01	0.50	1.00
Chlorine Trifluoride	ClF <sub>3</sub>	0~1.00	0.01	0.30	0.60
Diborane	B <sub>2</sub> H <sub>6</sub>	0~0.300	0.002	0.100	0.200
Fluorine	F <sub>2</sub>	0~3.00	0.02	1.00	2.00
Germane	GeH <sub>4</sub>	0~0.800	0.005	0.200	0.400
Hydrogen Bromine	HBr	0~6.00	0.05	2.00	4.00
Hydrogen Chloride	HCl	0~6.00	0.05	2.00	4.00
Hydrogen Cyanide	HCN	0~15.00	0.10	4.00	10.00
Hydrogen Fluoride	HF	0~9.00	0.02	1.00	2.00
Hydrogen Iodide	HI	0~5.00	0.05	1.50	3.00
Hydrogen Selenide	H <sub>2</sub> Se	0~0.200	0.001	0.050	0.100
Hydrogen Sulphide	H <sub>2</sub> S	0~30.00	0.20	10.00	15.0
Nitrogen Dioxide	NO <sub>2</sub>	0~15.00	0.10	5.00	10.0
Nitric Oxide	NO	0~100	1	25	50
Ozone	O <sub>3</sub>	0~1.00	0.01	0.30	0.60
Phosphine	PH <sub>3</sub>	0~1.00	0.01	0.30	0.60
Phosphorous Trifluoride	PF <sub>3</sub>	0~10.00	0.10	2.00	4.00
Silane	SiH <sub>4</sub>	0~15.00	0.10	5.00	10.00
Sulphur Dioxide	SO <sub>2</sub>	0~6.00	0.05	2.00	4.00

## Top View



## Side View



**Head Office:**  
Unit 1 / 3 Deakin Street  
(PO Box 5904)  
Brendale QLD 4500 Australia  
Ph: +61 (0) 7 3481 9000

**Perth Office:**  
Unit 5 / 30 Enterprise Crescent  
Malaga WA 6090 Australia  
Ph: +61 (0) 8 6184 7840  
[sales@controlequipment.com.au](mailto:sales@controlequipment.com.au)

**Representatives/Offices in:**  
Sydney Melbourne  
Hobart Adelaide  
Auckland Wellington  
[www.controlequipment.com.au](http://www.controlequipment.com.au)