SINGLE TOXIC GAS MONITOR

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 (SiH_4), Phosphine (PH_3), Arsine (AsH_3), Ammonia (NH_3), Hydrogen Chloride (HCl), Chlorine (Cl_2) and Hydrogen Fluoride (HF) and many others.

Contact Information

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SC-8000 Model

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

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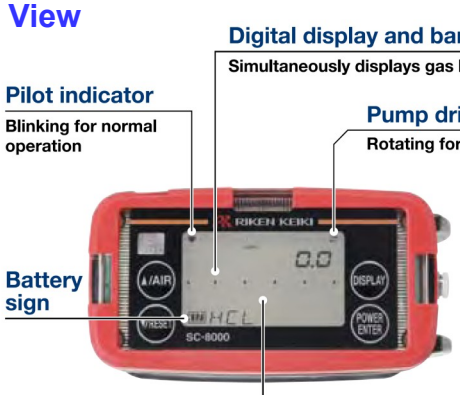
GASTECH AUSTRALIA

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_3	0~75.00	0.50	25.0	50.0
Arsine	AsH_3	0~0.20	0.001	0.050	0.100
Bromine	Br_2	0~1.00	0.01	0.30	0.60
Carbon Monoxide	CO	0~75.00	0.50	30.0	60.0
Chlorine	Cl_2	0~1.50	0.01	0.50	1.00
Chorine Trifluoride	ClF_3	0~1.00	0.01	0.30	0.60
Diborane	B_2H_6	0~0.300	0.002	0.100	0.200
Fluorine	F_2	0~3.00	0.02	1.00	2.00
Germane	GeH_4	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_2Se	0~0.200	0.001	0.050	0.100
Hydrogen Sulphide	H_2S	0~30.00	0.20	10.00	15.0
Nitrogen Dioxide	NO_2	0~15.00	0.10	5.00	10.0
Nitric Oxide	NO	0~100	1	25	50
Ozone	O3	0~1.00	0.01	0.30	0.60
Phosphine	PH3	0~1.00	0.01	0.30	0.60
Phosphorous Trifluoride	PF3	0~10.00	0.10	2.00	4.00
Silane	SiH4	0~15.00	0.10	5.00	10.00
Sulphur Dioxide	SO2	0~6.00	0.05	2.00	4.00

Top View



Side View

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