CONTROL EQUIPMENT
est. 1977 PTY LTD
Gas Detection and Industrial Hygiene

SC-8000

Single Toxic Gas Monitor

- **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**

Overview

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.

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

PH3
AsH3
NH3
HCl
CL2
SiH4
HF

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Common Specifications	
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	AA Alkaline battery (3 pieces)
Continuous Operation	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 Hose (1m) • Instruction Manual • Gas Sampling Probe • Alkaline 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	• Sampling Probe Holder on the neck / shoulder strap • Data logging Software • Carrying Box (Aluminium) • Waist Strap
Warranty	Two Years material and workmanship

Top view

Detectable Gas	Formula	Measuring Range (ppm)	Increments (ppm)	Preset Alarm (ppm)	
				1st	2nd
Ammonia	NH3	0~75.00	0.50	25.0	50.0
Arsine	AsH3	0~0.20	0.001	0.050	0.100
Bromine	Br2	0~1.00	0.01	0.30	0.60
Carbon Monoxide	CO	0~75.00	0.50	30.0	60.0
Chlorine	Cl2	0~1.50	0.01	0.50	1.00
Chorine Trifluoride	ClF3	0~1.00	0.01	0.30	0.60
Diborane	B2H6	0~0.300	0.002	0.100	0.200
Fluorine	F2	0~3.00	0.02	1.00	2.00
Germane	GeH4	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	H2Se	0~0.200	0.001	0.050	0.100
Hydrogen Sulphide	H2S	0~30.00	0.20	10.00	15.0
Nitrogen Dioxide	NO2	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

Side view