SC-8000

Portable Multi Gas Monitor

Portable toxic gas monitor for semiconductors / LED / solar cell plants and gas / petro chemical / chemical plants.

Product description

The SC-8000 sets the new industry standard for rugged and reliable portable toxic gas detection. Its lightweight, waterproof and intrinsic safe design utilizes features based on years of gas detection experience. This assures that the instrument will operate properly to check gas leaks and protect workers and property in toxic gas detection applications.

Features

- Real time detection with ppm range
- Large digitial and bar graph display with back light
- Loud alarm buzzer with 95dB
- 2-step adjustable alarm volume
- Simple menu-based operation
- Compact and lightweight
- ATEX intrinsic safe design Exia IIC T4
- Water and dust-resistant IP67
- Ergonomic design with waist strap for hands-free operation
- Datalogging standard

Specifications

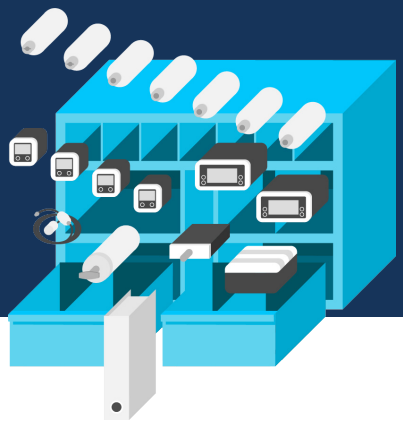
SC-8000	
Target Gas Alarm Point Detection Range	Please refer to the table on the next page. (Specify one detectable gas and range when ordering.)
Detection Principle	Electrochemical
Types of Alarm	Gas alarm: Latching, 2 alarms Failure alarm: Flow failure, Sensor failure, Battery failure, Circuit failure, Calibration failure, Setting current failure
Display of Alarm	Lamp: LEDs flash (high definition LED) Buzzer: (Gas alarm) Alternating sound high and low pitch, (Failure alarm) Continuous sound Display: (Gas alarm) Gas concentration on the display flashes. (Failure alarm) Alarm message on the display flashes.
Alarm Sound	More than 95dB (A) at 30cm
Sampling Method	Sample draw, approx. 0.5L/min
Display	Digital LCD with auto backlight Digital display (7 segments) + digital bargraph (50 segments)
Power Source	Rechargeable Lithium-ion battery (3 hours for a full charge): Standard (BUL-8000) AA Alkaline battery (3 pes): Option (BUD-8000)
Continuous Operation	Lithium-ion battery: more than 25 hours AA Alkaline battery: more than 18 hours
Operating Temp & Humidity	Operating temp: -20 +50°C, Humidity 20 88%RH (without condensing)
Dimensions & Weight	Dimension: 154(W)x81 (H)x164(D)mm, Weight: approx 1.1 kg (with BUL-8000)
Ingress Proof Rating	Equivalent to IP67

Note: Specifications subject to change without notice.

Specifications

Detectable Gas and Measuring Range					
Detectable Gas	Chemical Formula	Measuring Range (ppm)	Increments (ppm)	Preset Alarm (ppm)	
				1st	2nd
Ammonia	NH_3	0 75.0	0.5	25.0	50.0
Arsine	A_SH_3	0 0.200	0.001	0.050	0.100
Bromine	Br_2	0 1.00	0.01	0.30	0.60
Carbon Monoxide	CO	0 75.0	0.5	25.0	50.0
Chlorine	Cl_2	0 1.50	0.01	0.50	1.00
Chlorine Trifluoride	CLF3	0 1.00	0.01	0.30	0.60
Diborane	B_2H_S	0 0.300	0.002	0.100	0.100
Fluorine	F_2	0 3.00	0.02	1.00	2.00
Germane	G_eH_4	0 0.800	0.005	0.200	0.400
Hydrogen Bromide	HB_r	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 15.0	0.1	4.0	10.0
Hydrogen Fluoride	HF	0 3.00	0.02	1.00	2.00
Hydrogen Iodide	HI	0 5.00	0.05	1.50	3.00
Hydrogen Selenide	H_2S_e	0 0.200	0.001	0.050	0.100
Hydrogen Sulfide	H_2S	0 30.0	0.2	5.0	10.0
Nitrogen Dioxide	$N0_2$	0 15.0	0.1	5.0	10.0
Nitrogen Monoxide	NO	0 100	1	25	50
Ozone	O_3	0 1.00	0.01	0.30	0.60
Phosphine	PH_3	0 1.00	0.01	0.30	0.60
Phosphorus Trifluoride	PF_3	0 10.0	0.1	2.0	4.0
Silane	S_iH_4	0 15.0	0.1	5.0	10.0
Sulfur Dioxide	$S0_2$	0 6.00	0.05	2.00	4.00

The Bruusgaard System



BRUUSGAARD

TBS is a unique turnkey portable gas detection solution, giving you increased safety and substantial cost savings through standardised instruments, routines, training and procurement.

Logistic Support

At any given time we know the status of all vessels and sites covered by The Bruusgaard System. We consolidate all shipments and make sure you have everything you need on board until next scheduled delivery. This results in fewer shipments and substantial savings!

- Year round follow up of instruments, spares and consumables
- Handling of all shipments & logistics
- Annual reports per vessel including budgeting

Safety

QA – strict routines and logging

- Crew are able to use instruments and follow routines correctly
- Instruments are in proper working condition at all times
- Instruments are calibrated at correct intervals
- Sensors and other items are replaced at correct intervals
- Usage of instruments is logged, including abnormal observations
- Traceability – instrument history and usage
- Routines and procedures can merge into the overall QA-system

Effective and proven training is an integrated part of The Bruusgaard System.

Instruments

All the equipment used for gas detection and calibration is placed in a custom-made wall cabinet. Including Log & Instruction Manual, which are crucial to maintaining the safety integrity.

- Standardised vessel specific gas detector solutions
- Total solutions including all equipment and routines necessary for efficient and safe use, storage and maintenance

Cost Savings

Some of our customers have been able to go from 8 to 10 suppliers down to 1 – translating into cost savings of up to 40-50%. For one vessel, this could be thousands of dollars annually, and for a whole fleet, the cost savings can be dramatic. This is achieved through:

- One contact for worldwide supply of spares & gases
- All service and calibration can be done on site.
- Reductions of instrument types from 10-12 to 2-3

Reduced maintenance costs through:

- On board calibration
- Fewer instruments on board
- No need for spares on board
- One PO per year
- Increased safety
- Less use of administrative time