



Portable VOC Gas detector

For detection of volatile organic compounds for toxic monitoring as per OSHA guideline

Handheld, light weight, easy to move, toxic level measurement in ppm terms, as per OSHA guidelines for work safety, battery operated, onboard large LCD Display, inbuilt alarm flasher.

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Portable Volatile Organic Compound Gas Detector SG Series

Product Description:

SG series portable gas detector is handheld, portable, light weight instrument with inbuilt battery powered. It is used for quick detection of toxic gas concentration in ambient air or confined spaces. It is equipped with large LCD display for better readout of gas concentration, alarm message, errors and also parameter configuration.

It also has inbuilt alarm with sound and light vibration for warning signals to user. Portable gas detector samples ambient air based on diffusion principle for measurement purpose. Optionally, it is also available with or without sampling pump.



Fig: Portable Gas Detector

Salient Features:

- Meet design requirements for intrinsically safe circuit.
- Anti-static, anti-electromagnetic interference
- High degree of ingress protection IP65 for dust, water splash, shock protection
- Large LCD Display for measurement readout, alarm, time, configuration
- Data storage facility up to 1000 entries for reading or alarm events
- Standard USB charging port
- 3000mA high capacity rechargeable polymer battery for longer working period
- Multiple alarm level setting available
- Zero point automatic tracking
- Light weight

Suggested Applications:

- Landfill, mining area
- Sewage, water treatment, effluent treatment facility
- Chemical plants
- Hydrocarbon units, refinery, bottling plants, warehouses



- Furnace area
- Baking area, conveyor belts
- Kitchen, canteen

Product Specifications:

Parameters	Specifications
Measuring parameter	Volatile organic compound (VOC) level
Sensor element	Electro-chemical technology based
Measuring range	0-1000 ppm VOC
Sampling	Diffusion (Standard) Optional: sampling pump
Resolutions	1 ppm
Accuracy	≤ +/- 3% FS
Response time	≤ 30 sec
Recovery time	≤ 30 sec
Expected life	~ 3 years
Display	2.3 inch 320 x 240 high definition color display
Alarm level	Alarm with sound and light, vibration.
Power supply	3.6VDC, 3000 mA high capacity rechargeable polymer battery
Working environment	-40°C ~ +70°C, humidity: 10~95% Rh
Data recording	Up to 1000 events
Language	Simple English
Explosion proof	Intrinsically safe Ex ia IIC T4 Ga
Ingress protection	IP65
Dimensions	130 x 68 x 33 mm (L x W x H)
Weight	Approx. 197 grams

**Others Gas Detector available:**

Gas Name / Description / Formula	Gas code	Gas Name / Description / Formula	Gas code
Carbon monoxide	001	Iodine	029
Chlorine Dioxide	002	Methanol	030
Oxygen	003	Methyl Bromide (CH ₃ Br)	031
Ammonia	004	Methylamine	032
Acetaldehyde	005	Methylbenzene (C ₇ H ₈)	033
Acetylene	006	Nitric Oxide	034
Acrylonitrile	007	Nitrogen	035
Argon	008	Nitrogen Dioxide	036
Arsine Hydride	009	Nitrogen Oxides (NO _x)	037
Benzene (C ₆ H ₆)	010	Nitrogen Trifluoride (NF ₃)	038
Bromine	011	Nitrous oxide (N ₂ O)	039
Carbon Dioxide	012	Ozone	040
Carbon Disulphide	013	Ozone water	041
Chlorine	014	Perchloroethylene	042
Diborane Boroethane	015	Phosgene	043
Ethanol	016	Phosphine	044
Ethylene	017	Silane	045
Ethylene Oxide	018	Styrene	046
Fluorine	019	Sulphur Dioxide	047
Formaldehyde	020	Sulphuryl Fluoride (SO ₂ F ₂)	048
Germanium Hydride	021	Tetrahydrothiophene (THT)	049
Helium	022	Trichloroethylene (C ₂ HCL ₃)	050
Hydrazine	023	TVOC	051
Hydrogen	024	Vinyl Chloride	052
Hydrogen Bromide	025	VOC	053
Hydrogen Cyanide	026	Xenon	054
Hydrogen Fluoride	027	Xylene (C ₈ H ₁₀)	055
Hydrogen Sulphide	028		

