

Ocean one®



PORTABLE MULTI-GAS DETECTOR GAS1000 PRO



Ex ia IIC T4 Ga
Ex ia IIIC T₂₀₀ 130°C Da



Ex ia IIC T4 Ga
Ex ia IIIC T₂₀₀ 130°C Da

INTRODUCTION

GAS1000PRO five-gas diffusion personal gas detector is designed for wearable personal atmosphere monitoring during enclosed space entry works. It is **intrinsically safe, diffusion-sampling type**, capable of simultaneous detection of **Oxygen(O₂), Flammable gas(LEL), Carbon Monoxide(CO), Hydrogen Sulphide(H₂S) and Carbon Dioxide(CO₂)**, with **multi-mode alarm (audible, visual and vibration)**.

Clarification: This personal diffusion detector is intended for continuous monitoring of ambient gas around the wearer **after entering the enclosed space**, as supplementary safety equipment. It **does not satisfy the pumped remote pre-entry sampling requirement defined in SOLAS Regulation XI-1/7 and IMO MSC.1/Circ.1477**. The mandatory pre-entry remote atmospheric test for enclosed space must be performed by a pumped sampling tester such as GAS3000.

TECHNICAL PARAMETER

Applicable gas	Combustible, Toxic Hazardous Gas & Oxygen
Sampling method	Diffusion Sampling
Measuring range	0~100%LEL(combustible); 0~100ppm(toxic) (varies by gas type)
Sensor type	Catalytic Bead, Electrochemical, Infrared etc.
Resolution	1% LEL,1ppm,0.1ppm,% VOL
Display	LCD Screen
Alarm mode	Audible+Visual+Vibration 3-stage Alert
Ambient temperature	25 °C ~55 °C
Relative humidity	20~93%RH, non-condensing
Accuracy	±3%FS(Combustible), varies by gas type
Response time T ₉₀	≤30s (Combustible, varies by gas)
Operating voltage	DC 3.7 V
Battery Spec	2000mAh Li-ion Rechargeable Battery
Charging Time	≤ 6 h
Working time	≤ 12h under standby without alarm
Dimension	L 78 × W 86 × H 40 mm
Weight	Approx.165g
Explosion Protection Rating	Ex ia IIC T4 Ga / Ex ia IIIC T ₂₀₀ 130 °C Da
Protection grade	IP68
Data port	Magnetic suction, Type-C & PC USB Interface



Confined Space Entry



Oil & Chemical Tankers



Offshore Oil & Gas Facilities

Detection gas

	Combustible gas (Ex)	Oxygen(O ₂)	Carbon monoxide (CO)	Hydrogen sulfide (H ₂ S)	Carbon Dioxide (CO ₂)
Sensor type	Catalytic combustion	Electrochemical			NDIR
Measuring range	0~100 %LEL	0~30 %VOL	0~1000 μmol/mol	0~100 μmol/mol	0~5000 μmol/mol
Level 1 alarm point	20 %LEL	19.5 %VOL	50 μmol/mol	15 μmol/mol	1500 μmol/mol
Secondary alarm point	50 %LEL	23.5 %VOL	150 μmol/mol	35 μmol/mol	2500 μmol/mol
Indicating error	±5 %FS	±3 %FS	± 5 μ mol / mol or ± 10% (meet one)	± 2 μ mol / mol or ± 10% (meet one)	±3 %FS



Wi-Fi Connectivity & Cloud Sync

syncing data in real time to the cloud platform and mobile app for easy remote access and management.

Disclaimer

Accuracy of all technical data and information are provided to the best knowledge of the manufacturer. Properties, specifications and application parameters are subject to change without notice. The manufacturer does not undertake any liability of any kind whatsoever.

Crafted for Reliability, Smart for Seaways.

Intelligent onboard gas detectors protect every voyage, free from risks and hazards.

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