

Portable Gas Analyzer

GF330B

Features

- Compatible with over 100 gas sensors.
- Smart Algorithm
- Optional Sensors
- Active Pumping: Active pump suction design.
- Low Power: 32-bit ultra-low power microprocessor.
- Compensation Algorithms
- 5-inch high-definition color screen.
- Supports switching between ppm, $\mu\text{mol/mol}$, mg/m^3 , etc.
- Durable Housing
- Automatic data storage.
- Supports USB one-click export
- Optional wireless Bluetooth portable printer.
- Supports Bluetooth and NB module interconnectivity.

Application

- Research: Detecting toxic gases in labs.
- Agriculture: Monitoring gases in storage and warehouses.
- Industry: Tracking toxic gas levels in industrial sites.
- Safety: Monitoring gas composition in natural gas and petrochemical sectors to prevent hazards.
- Public Safety: Monitoring in firefighting, municipal services, and emergency operations.

Description

The Portable Gas Analyzer from Optosky is an advanced device for continuous detection of toxic, harmful, and flammable gases, including VOCs. With non-reactive materials for stability and longer maintenance cycles, it meets on-site needs effectively.

Compatible with over a hundred gas sensors, this analyzer can detect up to eight gases simultaneously, offering customizable sensor combinations. Powered by a long-lasting lithium battery, it features an intuitive Chinese interface and various alarm systems for safety.

Widely applicable across industries such as petroleum, environmental protection, and emergency response, the Portable Gas Analyzer is essential for modern gas detection, reflecting industry trends toward smarter solutions.



1. Parameter

Parameter	Details
Measurement Principle	Infrared absorption spectroscopy (NDIR), electrochemical, catalytic combustion, semiconductor, PID
Measured Gases	Hydrogen fluoride, hydrochloric acid, chlorine, VOCs, etc. (see gas appendix for details)
Measurement Range	See gas appendix for details
Accuracy	$\leq \pm 3\%$ F.S.
Linearity	$\leq \pm 3\%$ F.S.
Repeatability	$\leq \pm 3\%$ F.S.
Response Time (T90)	T90 ≤ 30 s (electrochemical); T90 ≤ 10 s (NDIR)
Drift	$\leq \pm 3\%$ F.S./month
Pre-treatment	Built-in dust removal and other pre-treatments
Data Analysis	Curve waveform analysis and average value statistics displayed
Compensation Features	Temperature and humidity compensation, cross-interference compensation
Display	5-inch HD color touchscreen
System Language	Chinese
Sampling Method	Pump suction
Shell Material	ABS engineering plastic
Wireless Output	NB/4G/5G (optional)
Communication Interface	RS232, USB
Alarm Method	Audio-visual alarm
Battery Capacity	4AH lithium battery
Charging Parameters	16.8V 1A
Protection Level	IP66, dustproof, splash-proof, anti-static
Warranty	1 year
Data Storage	Supports expandable storage card, capable of storing over ten million data sets, supports real-time viewing, deletion, and data export
Overall Dimensions	330*280*140mm
Weight	> 1.5 kg
Accessories	Manual, certificate, warranty card, USB charger (including data cable)

2. GF330B Gas Measurement Table

Gas Name	Molecular Formula	Measurement Range
Carbon Monoxide	CO	0-2000 ppm
Oxygen	O ₂	0-100%
Hydrogen Sulfide	H ₂ S	0-500 ppm
Hydrogen	H ₂	0-40000 ppm
Sulfur Dioxide	SO ₂	0-2000 ppm

Nitrogen Dioxide	NO ₂	0-2000 ppm
Nitric Oxide	NO	0-2000 ppm
Chlorine	Cl ₂	0-200 ppm
Hydrogen Chloride	HCl	0-200 ppm
Phosphine	PH ₃	0-2000 ppm
Formaldehyde	CH ₂ O	0-100 ppm
Ethylene Oxide	C ₂ H ₄ O	0-500 ppm
Hydrazine	N ₂ H ₄	0-1 ppm
Ammonia	NH ₃	0-1000 ppm
Hydrogen Cyanide	HCN	0-100 ppm
Methane	CH ₄	0-100%
Hydrogen Fluoride	HF	0-200 ppm
Silane	SiH ₄	0-50 ppm
Hydrogen Peroxide	H ₂ O ₂	0-2000 ppm
Phosgene	COCl ₂	0-1 ppm
Chlorine Dioxide	ClO ₂	0-20 ppm
Fluorine	F ₂	0-1 ppm
Chlorine	Cl ₂	0-200 ppm
Tetrahydrothiophene	C ₄ H ₄ S	0-50 mg/m ³
Hydrogen Selenide	HSe ₂	0-5 ppm
Hydrogen Fluoride	HF	0-10 ppm
Methanethiol	CH ₃ SH	0-10 ppm
Ethylene	C ₂ H ₄	0-2000 ppm
Hydrogen Bromide	HBr	0-200 ppm
Bromine	Br ₂	0-200 ppm
Arsenic Hydride	AsH ₃	0-1 ppm
Ozone	O ₃	0-200 ppm
Volatile Organic Compounds	TVOC	0-2000 ppm
Carbon Dioxide	CO ₂	0-50000 ppm