



## Introduction

# OC-1000 Portable multi gas detector for NH3 and CO2



**Description:**

OC-1000 portable multi gas detector with the inner pump to detect the gas composite concentration data in different working place. Our engineer design it with 6 sensors at most: one is default of the Temperature & Humidity sensor, so when workers need to inspect the gas concentration, it can detect 5 gas type at most, users can choose 2 gas, or 3 gas, or 4 gas, according to different usage. The gas composite will be according to the users demands.

**Features:**

Semiconductor technology of ultra low power 32 bit microprocessor, 24 bit ADC acquisition chip, so with the high accuracy.

3.5 inch IPS industrial grade color screen.

Support Chinese or English operation menu.

Gas concentration unit available for PPM, %VOL, mg/m3.

For 1~5 gas detecting, gas type all be customized, supporting the PM2.5 particle counter sensor, and humidity sensor, etc.

Internal sampling pump for suction, the suction strength is adjustable in different level.

Explosion proof grade is Exia II CT4.

**Function:**

Inspect the gas concentration and alarm when it reaches preset alarm level.

With auto-test and data recover function.

One-key operation to restore to factory default setting.

Temperature and pressure compensation.

Adjustable two-stage audible-visual alarm threshold value.

Powered by rechargeable lithium battery with big capacity.

Working under the micro negative pressure is available.

Overload protection, over charge protection, anti static interference, anti magnetic interference, etc.



- ① — Power
- ② — Print
- ③ — Print and charger port
- ④ — Up
- ⑤ — Down
- ⑥ — Confirm and menu key
- ⑦ — Back
- ⑧ — Open key for pump
- ⑨ — Temp/humidity testing
- ⑩ — Air intakes
- ⑪ — IPS display screen

#### Technical Parameter:

Gas type	CO <sub>2</sub> , NH <sub>3</sub>
Working principle	Electrochemical sensor for NH <sub>3</sub> ; NDIR sensor for CO <sub>2</sub> .
Sampling mode	Pump-suction sampling
Measuring range	CO <sub>2</sub> :0~10000ppm

	NH3: 0~100ppm		
Resolution	CO2: 1ppm NH3: 0.01ppm		
Precision	±3%F.S		
Temp & Humidity testing range	Temperature: -40~120°C; Humidity: 0~100% RH		
Data storage function	With the capacity of the 100000 group of measuring data, by the software could be transmitted to the computer.		
Printer	Optional mini-printer.		
Response time	≤20s(T90)	Recovery time	≤20s
Repeatability	≤±1%	Linearity	≤±1%
Zero drift	≤±1%(F.S/year)	Concentration unit	ppm, %vol, %lel, mg/m3
Display	LCD display the Date, time, Temp& humidity, Gas concentration data, unit, status for the pump, alarm and battery.		
Operation language	Chinese/English	Alarm mode	Audible, visual, vibration
Working temperature	-40~120°C	Working humidity	0-95%RH(non-condensing)
Working pressure	-30Kpa ~ 100Kpa	Explosion-proof grade	Ex ia IIC T4 Ga
Protection grade	IP65	Shell material	ABS+PC
Dimensions	220*88*55mm	Weight	0.5KG
Standard accessory	Particle filter, box, instruction, USB charger, data line, calibration cap.		

### Applications:

The Portable multi gas detector with the common applications include chemical industry, petroleum, gas station, metallurgy, agriculture, biology pharmaceuticals, power, lab research and other industry environment where need to inspect combustible or toxic gas concentration.