



## Introduction



## Description:

OC-905 Portable TVOC gas detector designed with the inner pump and the imported brand sensors; it has following advantages of stable performance and high accuracy. Used to detect the single gas concentration for the Combustible gas, Toxic gas, Carbon Dioxide, Oxygen,

TVOC, etc. It can directly display the gas concentration data on the screen, the data also could be exported to the computer by USB cable.



**Features:**

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

2.5 inch dot matrix display interface.

All English operation menu and easy operation.

Unit data available for ppm and mg/m<sup>3</sup>.

The circuit installed the four layers of wire, so well anti-interference.

Explosion proof grade is Ex ib IIC T4 Gb.

High accuracy, good stability and good repeatability, long working life.

Rechargeable battery with big capacity.

Data storage and data logger function.



**Technical Parameter:**

Gas type	Volatile Organic Compound (TVOC)
Measuring range	0~10ppm, 20ppm, 50ppm, 100pm, 2000ppm or Customized
Working principle	PID sensor ( Optional Electrochemical sensor)
Resolution	0.01ppm, 1ppm

Precision	$\pm \leq 3\%FS$ or Customized
Repeatability	$\leq \pm 1\%$
Zero drift	$\leq \pm 1\%(F.S./year)$
Sampling mode	Pump-suction sampling (Flow rate of 300ml/minute)
Data storage	Can record 300000 group of measuring data
Response time	$T_{90} \leq 20s$
Recovery time	$\leq 20s$
Pre-heating time	$\leq 60s$
Display	LCD dot matrix display of the Gas type, gas concentration unit, gas concentration data, time, battery status, data storage status
Concentration unit	ppm, mg/m <sup>3</sup>
Working environment	Working temperature: -20°C ~ 60°C Working humidity: 10%-95%RH(non-condensing) Working pressure: 86Kpa ~ 106Kpa
Explosion-Proof grade	Ex ib IIC T4 Gb
Protection grade	IP66
Alarm mode	Audible, visual
Shell material	Metal
Power supply	3.7VDC, 2800mAh, Rechargeable lithium battery DC5V USB charger
Charge time	$\leq 6$ hours
Working time	$\geq 24$ hours
Dimensions	135*65*35mm
Weight	0.5KG
Accessory	Box, instruction, USB charger, data line
Quality standard	GB15322.1-2003, GB3836.1-2010, GB3836.2-2010, GB3836.4-2010



**Application:**

The common applications is gas safety inspection and alarm for industrial scene, such as petroleum refinery, chemical plants, LPG stations, boiler rooms, gas stations, paint spray booths, metallurgy, mining, fire, environmental protection, etc., where need to inspect the TVOC gas concentration.