



### INTRODUCTION

The Metravi GD-09-6M Pumping Multi Gas Detector is intelligently designed with advanced, integrated circuit technology, standard intelligent technical level design and proprietary digital-analogue hybrid communication technology.

The detector adopts a built-in pump-suction sampling method and the sensitive element adopts a high-quality gas sensor.

It has good sensitivity and excellent repeatability, is easy to use and helps to maintain the safety needs of industrial sites.

For high-reliability, the shell is made of high-strength engineering plastics and composite, non-slip rubber, which has high strength, solid hand feeling, and is waterproof, dust-proof and explosion-proof.

**It is widely used in petroleum, chemical, environmental protection, smelting, refineries, manufacturing biochemical medicines, agriculture, scientific research, universities and other industries and fields.**

**The detector detects 6 gases: Oxygen (O<sub>2</sub>), Carbon Di Oxide (CO<sub>2</sub>), Carbon Monoxide (CO), Hydrogen Sulfide (H<sub>2</sub>S), Nitrogen Di Oxide (NO<sub>2</sub>) and Explosive Gases (EX).**

It integrates electro-chemistry, catalysis and various detection principles such as semiconductors, thermal conductivity and optics to provide users with a reliable, accurate and safe gas detection solution.

The GD-09-6M also features PM2.5/PM10 detection module, 4G module and GPS.

### FEATURES

- Latest GUI design makes the interface and display comprehensive and the operation user-friendly.
- The integrated built-in pump can detect up to six types of gas at the same time.
- Imported miniature, vacuum suction pump enables stable flow, long life and low noise.
- Features a 3.5-inch high-definition colour screen with a wide viewing angle of 120°.
- The three-button operation is simple and intuitive.
- IP65 protection; the device is waterproof and dust proof.
- Exiib IIC T4Gb certification; the device is explosion proof

### PRODUCT FUNCTIONS

- The flow rate of the sampling pump is adjustable - 6 levels, each suitable for different detection environments (flow range 300-800mL/min).
- Four Alarm modes - sound, light, vibration and display. Supports TWA and STE alarm functions.
- Fail alarm; the sampling pump will automatically sound alarm and display prompt if it fails.
- Gas units switching function.
- Real-time detection of temperature and humidity of the environment.

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- Extended PM2.5/PM10 detection module to obtain real-time particulate matter concentration (measurement range 0.1000µg/m<sup>3</sup>).
- Uses mixed gas calibration method and is convenient and fast; supports multi-point calibration method, up to 5 points calibration.
- Switching between real-time data display of gas concentration and real-time curve display is possible.
- A variety of data storage methods: alarm storage, timing storage, manual storage. Supports external TF memory card storage mode and can read the stored data on a PC using the USB cable. External storage in csv file format data is available for viewing at a glance.
- Bluetooth function facilitates data view and setting of parameters through the mobile App; supports external Bluetooth printer and real-time printing of test data.
- GPS positioning function\* and 4G data transmission\* - transmission intervals can be configured. Also supports cloud platform data viewing\* function.
- USB type-C interface for charging and PC or Smartphone connectivity (using App).
- Large capacity (4000mAh) rechargeable Li-Ion battery facilitates longer use time.

## PARAMETERS

Gas	Measuring Range	Low Alarm	High Alarm	Resolution
EX	(0~100)%LEL	20%LEL	50%LEL	1%LEL
H2S	(0~100) ppm	10ppm	35ppm	1ppm
CO	(0~1000) ppm	50ppm	150ppm	1ppm
O2	(0~30)%vol	19.5%vol	23.5%vol	0.1%vol
CO2	(0~5)%vol	1.00%vol	2.00%vol	0.01%vol
NO2	(0~20) ppm	5.0ppm	10.0ppm	0.1ppm



## SPECIFICATIONS

- Response Time** : T<sub>90</sub><30S
- Working Environment** : Temperature 10°C~50°C; Humidity <95%RH
- Voltage** : DC3.7V (Lithium battery capacity 4000mAh)
- Display Mode** : 3.5 Inch colour LCD Screen, Resolution 320\*480
- Alarm Types** : T sound W, A light/S, T vibrating EL, alarm display four alarms, support for fail alarm, pump failure alarm
- Pumping Type** : Suction type pump, 6-speed adjustable pump flow, Range 300-800mL/min
- Gas Detection** : Supports 1~6 types gas detection
- Data Communication** : USB connection to the host computer to view data
- TF Memory Card** : Extended external TF memory card, storage file format. csv; support use data import (optional)
- Bluetooth** : View data and do parameter settings through the mobile App using Bluetooth
- Bluetooth Printer** : Compatible with Bluetooth printers - to print real-time data

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<b>4G</b>	:	4G communication supports cloud platform data viewing
<b>GPS</b>	:	Support GPS positioning function, need to be used with 4G
<b>Certifications</b>	:	IP65, Exiib IIC T4Gb
<b>Temperature Range</b>	:	-40°C~125°C
<b>Humidity Range</b>	:	0~100%RH
<b>Particles Detection</b>	:	PM 2.5, PM 10, measuring range 0-1000µg/m <sup>3</sup> (optional)
<b>Charger</b>	:	Type-C charging connector, 5V/1A standard charger
<b>Standby Time</b>	:	≥8h
<b>Charging Time</b>	:	<5h
<b>Sensor Lifespan</b>	:	2 years approx.
<b>Size</b>	:	231*87*60mm



**Other Gases for which combinations that can be customised**

Gas	Range	Low Alarm	High Alarm
CH4	0-100%LEL	20%LEL	50%LEL
C3H8	0-100%LEL	20%LEL	50%LEL
H2	0-100%LEL	20%LEL	50%LEL
H2	0-1000ppm	35ppm	250ppm
H2S	0-100ppm	10ppm	15ppm
H2S	0-100ppm	10ppm	20ppm
CO	0-1000ppm	35ppm	200ppm
CO	0-1000ppm	30ppm	60ppm
C2H4O	0-20ppm	10ppm	15ppm
C2H4	0-100%LEL	20%LEL	50%LEL
C2H4	0-20ppm	5ppm	10ppm
O2	0-30%vol	19.5%vol	23.5%vol
C2H5OH	0-100%LEL	20%LEL	50%LEL
NH3	0-100ppm	25ppm	50ppm
CL2	0-20ppm	5ppm	10ppm
O3	0-20ppm	5ppm	10ppm
O3	0-10ppm	2ppm	5ppm
SO2	0-20ppm	2ppm	5ppm
SO2	0-100ppm	2ppm	5ppm
PH3	0-20ppm	0.3ppm	5ppm
PH3	0-5ppm	0.3ppm	2ppm
CO2	0-5000ppm	1000ppm	2000ppm
CO2	0-50000ppm	1000ppm	2000ppm

Gas	Range	Low Alarm	High Alarm
NO	0-250ppm	20ppm	50ppm
NO2	0-20ppm	5ppm	10ppm
HCN	0-500ppm	10ppm	20ppm
HCN	0-50ppm	10ppm	20ppm
HCL	0-50ppm	10ppm	20ppm
CH2O	0-10ppm	2ppm	5ppm
VOC	0-100ppm	20ppm	50ppm
C6H6	0-100ppm	20ppm	50ppm



\*Note : The Metravi GD-09-6M can be customised for selected 6 gases from the above lists - the cost for the same will depend on the combination and features selected.

The standard pre-designed device comes with CO, O2, CO2, NO2, H2S and EX detection.

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