

# PTM600-Bio Portable Biogas /Natural Gas Analyzer

## Overview

PTM600-Bio is a portable gas measuring device for the analysis of gas mixtures in biogas plants, landfills and sewage treatment plants. It can measure the concentration of up to 12 gases simultaneously. The device is fitted with infrared sensors for measuring methane ( $\text{CH}_4$ ) and carbon dioxide ( $\text{CO}_2$ ). It can also be equipped with electrochemical sensors to measure  $\text{O}_2$ ,  $\text{H}_2\text{S}$  and optional  $\text{H}_2$ ,  $\text{CO}$  gases. A large display allows all parameters to be displayed simultaneously and quickly read from a single screen. Measurement data is stored in log files and can be transferred without difficulty to a PC over a USB connection. It is very suitable for research purpose or daily inspection in different biogas applications such as Anaerobic Digestion, landfill, wastewater treatment, biomethane and so on.

## Features

- Fast and efficient multi gases, temperature and humidity detection function.
- Provided with high measurement precision, stable performance.
- Simple operation and convenient to carry.
- Suitable for indoor environment of family, office, inside of cars and natural environment, etc.
- Rich human-machine interface and powerful and convenient humanized function.
- Large data storage & multi-storage.
- Multiple optional function meet personalized needs.



## Multi-gases to be detected

CO

O<sub>2</sub>

CH<sub>4</sub>

H<sub>2</sub>S

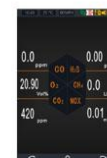
CO<sub>2</sub>

NO

Simultaneously detect 1 ~ 6 types of gases

18 types gas are optional

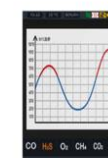
## Screen Display Mode



Multi-channel



Single-channel



Real-time curve

## Large capacity data storage

100,000 entries data storage capacity

SD storage is optional

Storage capacity can be customized





# Standard Accessories

- PTM600 main unit
- with internal pump, rechargeable battery
- internal printer
- Charger adapter
- Stainless steel sampling probe (304)
- 400mm length, 200 degree C
- Carrying Case
- Operation Manual
- Warranty Card
- Quality Certificate
- Calibration Cartificate



# Optional

## High Temperature probe



HSP4  
400 °C , 400mm length



HSP8  
800 °C , 800mm length



HSP12  
1000 °C , 1200mm length



THSP1  
1300 °C , 1000mm length

# Specifications

Gases to be detected	Arbitrary combination of 1 ~ 6 types of gases which can be expanded to 18 or more types of gases, such as toxic gases, oxygen gas, carbon dioxide, inflammable and explosive gases, TVOC, and so on.
Detection range	Long-range IR sensor for CO: 0-100%VOL, 0.01%VOL resolution
	High-resolution IR sensor for CO2: 0-100%VOL, 0.01%VOL resolution
	Industrial Electrochemical sensor for O2: 0-25%VOL, 0.01%VOL resolution
	High-resolution IR sensor for CH4: 0-100%VOL, 0.01%VOL resolution
	Thermal conductivity sensor for H2: 0-100%VOL, 0.01%VOL resolution
Resolution	Electrochemical sensor for NO2: 0-500ppm
	1ppm
Detection principle	other resolution can be customized
	PID photoionization Depending on the type of gas, range, field environment and user demand, can be customized.
Allowable error	≤±2% F.S (other or higher precision levels can be customized)
Working environment	Temperature: -40 °C ~ + 70 °C
	Humidity: ≤10 ~ 95% RH
Sample gas temperature	-40 °C ~ + 70 °C , and the optional configuration of high-temperature sampling and cooling filter handle will be possible to detect the smoke gas at the temperature of 1300 °C .
Power supply	3.6VDC, 10000mA high capacity rechargeable polymer battery
Display mode	3.5-inch high-definition color screen
Detection mode	Built-in pump-suction type measurementFlow rate at 800 ml / min
Alarm mode	Sound & light alarm, vibration alarm, turning off the alarm.
Protection level	IP66
Explosion-proof type	Intrinsically safe type
Explosion-proof mark	Exia II CT6
Exterior dimensions	230×210×120 mm (L×H×W)
Weight	2.5Kg