



GasLab Plus

Measure CO₂, CO, O₂, NH₃, PM_{2.5}, PM₁₀, Temperature and Humidity

overview

- Low cost, high quality, portable or mounted meter
- Data logger and continuous monitoring
- Long-life, built-in, lithium-ion battery
- Easy to use and maintain

The GasLab Plus is a low cost, robust, flexible meter with data logging options. Measure carbon dioxide (CO₂), temperature and relative humidity with the option to measure carbon monoxide (CO), oxygen (O₂), ammonia (NH₃), and particulate matter PM_{2.5} and PM₁₀.



model options

All options include a data logger, temperature and relative humidity sensor.

- ESCM-501: CO₂
- ESCM-504: CO₂ + CO + PM_{2.5} + PM₁₀
- ESCM-505: CO₂ + CO + O₂ + PM_{2.5} + PM₁₀
- ESCM-507: CO₂ + NH₃ + PM_{2.5} + PM₁₀
- ESCM-510: CO₂ + CO + O₂ + NH₃ + PM_{2.5} + PM₁₀

overview

The GasLab Plus series of detectors and meters are an ideal, low cost, easy to use option to monitor carbon dioxide (CO₂) or a range of other gases.

The GasLab Plus either measures CO₂ only, or there is a choice of other models to monitor additional gases including carbon monoxide (CO), oxygen (O₂), ammonia (NH₃), and particulate matter PM_{2.5} and PM₁₀.

All options and models include a temperature and relative humidity sensor as well as a data logger.

easy to use and maintain

The GasLab Plus is the easiest meter you can possibly use – simply turn on and the meter automatically starts measuring!

The GasLab Plus meter is delivered to you with a calibration certificate and a long-life lithium-ion battery included.

The gas detectors within the GasLab Plus will last many years without re-calibration or maintenance. Or, Edaphic Scientific can service the meter, and re-calibrate the sensors, whenever you require.

features

- Dual Beam NDIR technology to measure CO₂ concentrations
- Large LCD display for easy readability
- Audible alarm
- Data logging with 16GB SD card
- Multiple connected units by RS-485 interface
- LCD back light for easy readability by dark
- Li-ion rechargeable batteries

applications

- Indoor air quality
- Schools, offices and buildings
- Food and beverage
- Brewing
- Agriculture
- Poultry
- Scientific
- Medical
- Safety, and many others.

specifications

feature	specification
Carbon Dioxide (CO ₂) Detector	
Measurement Range	0 to 1% 0 to 9,999 ppm
Measurement Accuracy	±50 ppm or 5% of reading (whichever is greater)



feature	specification
Measurement Resolution	1 ppm
Carbon Monoxide (CO) Detector	
Measurement Range	0 to 1,000 ppm
Measurement Accuracy	±5%
Measurement Resolution	1 ppm
Oxygen (O2) Detector	
Measurement Range	0 to 25%
Measurement Accuracy	<2% FS/0.1 mbar
Measurement Resolution	0.01%
Ammonia (NH3) Detector	
Measurement Range	0 to 100ppm
Measurement Accuracy	±10%
Measurement Resolution	1ppb
PM2.5 and PM10	
Measurement Range	999 ug/m3
Measurement Accuracy	±15% or ±15 µg/m³, whichever is greater
Measurement Resolution	1 ug/m3
Temperature	
Measurement Range	0~50°C
Measurement Accuracy	±1°C
Measurement Resolution	0.01°C
Relative Humidity	
Measurement Range	0 to 100%
Measurement Accuracy	±3%@25°C (20~80% RH), others ±5%
Measurement Resolution	0.01%
General Specifications	
Operating Conditions	0~40°C (32~104°F), 0~95% RH, non-condensing, with lithium-ion batteries 0~50°C (32~122°F), 0~95% RH, non-condensing, without lithium-ion batteries
Storage Conditions	-20~60°C (-4~140°F), 0~85% RH, non-condensing, without lithium-ion. batteries
Power Supply	Rechargeable Battery : Li-ion 18650 3.7V *3 AC Adapter : 5V±5% >1A, 100~240 VAC, 50/60 Hz
Data Storage Capacity	depend on SD card capacity (max.16G SD card)
Alarm	80db ±5% @ 10cm
Weight	305g (without batteries)



feature

specification

Dimensions	2.1 x 9.2 x 5.0 cm
Warranty	1 year

manual & docs

- ESCM-500 Series Gas Detector Manual
- ESCM-501 Portable CO2 Meter Datasheet
- ESCM-504 GasLab CO2 and CO Meter Datasheet

related products

- CO2 detectors and meters
- Oxygen detectors and meters
- Ammonia (NH3) meter
- A complete range of gas detectors and meters