

F-900 * Portable Ethylene Analyzer



Continuous, sensitive ethylene measurement in real time!

The F-900 Portable Ethylene Analyzer non-destructively measures ethylene in real time, providing Quality Assurance professionals with the data they need to manage ethylene accurately and efficiently.

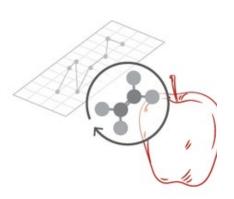
Using two electrochemical sensors, the F-900 measures ethylene from 0-200 ppm with a lower detection limit of 0.025 ppm.

The patent pending "PolarCept" filter removes polar hydrocarbons from the gas stream to ensure that measurements are not polluted by interfering gases such as ethanol.



Features

- Real-time, continuous monitoring
- Rapid response time
- Functional across broad temperature and humidity range
- Highly sensitive C2H4 sensors with lower detection limit of 0.025 ppm
- Optional CO2 sensors
- Optional 02 sensor
- Relative humidity, temperature, and pressure sensors on-board
- Internal data logging and storage (4GB SD card)
- Wi-Fi capabilities
- Direct interface with PC or data logging systems
- Terminal block for controlling ventilation systems
- Optional Injection Port Kit for small volume static samples
- Optional Research Kit for measuring directly from fruits or from static samples in any environment.







F-900 * Portable Ethylene Analyzer

Uses

- Monitoring controlled atmosphere facilities to ensure ethylene levels do not exceed critical thresholds
- Assisting research and development efforts by providing a simple, portable platform to measure ethylene, O₂ and CO₂.
- Inspecting shipping containers for levels of ethylene production or accumulation
- Measuring flux from a single fruit to understand how ethylene emission levels may vary across treatments
- Measuring head-space accumulation for analysis of small-volume samples or fruits with low ethylene emission rates

Specifications

Air Sampling Rate: 80mL/min

Measuring Rate: 1 second intervals, open or closed loop

Display: Sunlight visible transflective LCD

Operating Environment: 0°C - 45°C (0-90 % humidity non-condensing)

Battery Capacity: 5 hours – Rechageable Li-lon (5000 mAh)

PC Interface: USB and WI-FI SD card

Dimensions: 255mm (L) x 210mm (W) x 138mm (H; includes body with legs)

Weight: 2.96 kg

Enclosure: Anodized aluminum

Warm-up Time: 1 min (C₂H₄)

C₂H₄ PPB Sensor

Sensor Type: Electrochemical

Range: 0-10 ppm
Resolution: 0.001 ppm
Accuracy: 5% ± 0.025 ppm

Lower Detection Limit: 0.025 ppm (25 ppb)

Offset Calibration: Weekly Span Calibration: 3 months*

C₂H₄ PPM Sensor

Sensor Type: Electrochemical Range: 0-200 ppm

Resolution: 0.1 ppm **Accuracy:** 5% ± 0.5 ppm

Lower Detection Limit: 0.5 ppm
Offset Calibration: Weekly
Span Calibration: 3 months*

^{*} Full recalibration required annually at the manufacturer



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CO₂ PPM Sensor (optional)

Low-power non-dispersive infrared gas analyzer Sensor Type:

Range: 0-2000 ppm Resolution: 0.1 ppm Accuracy: 5%

Offset Calibration: Weekly Span Calibration: 6 months*

CO₂ PCT Sensor (optional)

Sensor Type: Infrared sensor, pyroelectric detector

Range: 0-20% **Resolution:** 0.01% Accuracy: 5% Offset Calibration: 6 months Span Calibration: 6 months*

O₂ Sensor (optional)

Sensor Type: Electrochemical

Range: 0-100% Resolution: 0.1% Accuracy: 5% Offset Calibration: 6 months Span Calibration: 6 months*

^{*} Full recalibration required annually at the manufacturer



F-900RK Research Kit









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