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PORTABLE ETHYLENE

ANALYZER

- Real-time, continuous monitoring of CO₂, O₂ and ethylene.
- Take measurements in seconds.
- Ethylene detection down to 25 ppb.

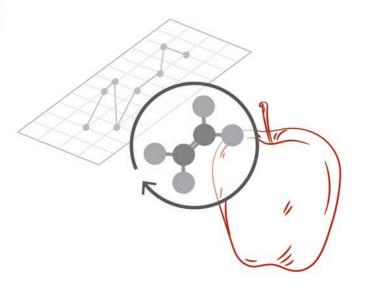
The F-900 Portable Ethylene Analyzer non-destructively measures ethylene in real time, providing Quality Assurance professionals with the data they need to manage ethylene accurately and efficiently.

Using **two eletcrochemical sensors**, the F-900 measures ethylene from 0-200 parts per million (ppm) with a lower detection limit of 0.025 ppm.

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

KEY APPLICATIONS

- 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.
- 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	80 ml/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, rechargable li-ion (5000 mAh) battery
PC interface	USB & Wi-Fi SD card
Dimensions	255mm x 210mm x 138mm
Weight	2.96 kg
Enclosure	Anodized aluminum
Warm-up time	1 min (C ₂ H ₄)

SENSOR SPECS

C₂H₄ PPB

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 recalibration	Weekly
Span recalibration	3 months

C₂H₄ PPM

Sensor type	Electrochemical
Range	0-200 ppm
Resolution	0.1 ppm
Accuracy	5% ± 0.5 ppm
Lower detection limit	0.5 ppm
Offset recalibration	Weekly
Span recalibration	3 months

C₂H₄ PCT SENSOR (OPTIONAL)

Range	0-20%
Resolution	0.01%
Accuracy	5%
Offset recalibration	6 months
Span recalibration	6 months*
Sensor type	Infrared sensor,
DVr	nelectric detector

O₂ SENSOR (OPTIONAL)

Sensor type	Electrochemical
Range	0-100%
Resolution	0.1%
Accuracy	5%
Offset recalibration	n6 months
Span recalibration	6 months

CO₂ PPM SENSOR (OPTIONAL)

Range	0-2000 ppm
Resolution	0.1 ppm
Accuracy	5%
Offset recalibration	Weekly
Span recalibration	6 months*
Sensor type	Low power,
non	Hosporsivo IDGA

non-despersive IRGA









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