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Product 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

F-900 Portable Ethylene Analyzer

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 parts-per-million (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.

Continuous, sensitive ethylene measurement in real time!



F-900 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, rechargeable li-ion (5000 mAh)	
PC interface	USB and Wi-Fi SD card	
Dimensions	255 mm (L) x 210 mm (W) x 138 mm (H; includes body with legs)	
Weight	2.96 kg	
Enclosure	Anodized aluminum	
Warm-up time	1 min (C ₂ H ₄)	
C ₂ H ₄ 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+	
C ₂ H ₄ 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*	
CO, PPM	SENSOR (OPTIONAL)	
Sensor type	Low power non-dispersive infrared gas analyzer	
Range	0-2000 ppm	
Resolution	0.1 ppm	
Accuracy	5%	
Offset recalibration	Weekly	

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PLIED FOOD SCIENCE

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CO ₂ PPM SENSOR (CONTINUED)		
Span recalibration	6 months*	
CO ₂ PCT SENSOR (OPTIONAL)		
Sensor type	Infrared sensor, pyroelectric detector	
Range	0-20%	
Resolution	0.01%	
Accuracy	5%	
Offset recalibration	6 months	
Span recalibration	6 months*	
O ₂ SENSOR (OPTIONAL)		
Sensor type	Electrochemical	
Range	0-100%	
Resolution	0.1%	
Accuracy	5%	
Offset recalibration	6 months	
Span recalibration	6 months*	

Full recalibration required annually at the manufacturer *standard gas required + typically 5% drift/month

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

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