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THREE GAS

C₂H₄





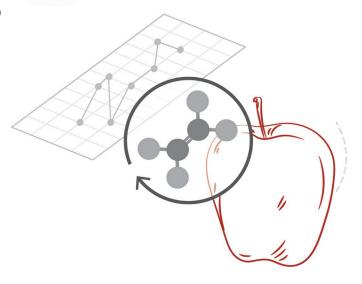
- Rapid, real-time measurement of CO₂,
 O₂ and ethylene.
- Measure ethylene from 0 200 ppm.
- Ethylene detection down to 0.15 ppm.

The F-950 Three Gas Analyzer measures levels of Ethylene, CO2 and O2 to **maintain optimal produce quality** at every phase of the supply chain. The F-950's versatile design allows it to be be **scaled to many environments**, from cold storage to transportation container.

Simple to operate and weighing less than a kilogram, the F-950 uses an electrochemical cell to measure ethylene between 0-200 ppm. The F-950 is ideal for measuring ethylene production across a wide range of fruit types.

KEY APPLICATIONS

- Verification of ethylene mitigation systems for increasing commodity shelf life and storage longevity.
- Monitoring controlled atmosphere facilities to ensure the proper balance of gasses throughtout operations.
- Modified Atmosphere Packaging QA
 in packing lines, laboratories, import/export surveys,
 distribution centers, and retail centers.
- Precision citrus degreening and ripening control on various commodities.

























SPECIFICATIONS

Sampling flow rate	70mL / min
Total sampling time	30 seconds
Data saving	Automated (1 sec)
Display	Backlit LCD
Dimensions	18 cm x 13.5 cm x 5.5 cm
Battery life	8.5 hours
Data recordedCO2, O2 concentra	tions, date, time RH, GPS location
Operating environment	0° C - 50° C
Weight	
Enclosure	Powder-coated aluminum
Power source	Rechargable battery (Li-ION)
PC Interface	USB and SD card
Operating pressure	500 - 1200 mbar

HEADSPACE SAMPLING

C₂H₄ Sensor

Range	0-200 ppm
Resolution	0.1 ppm
Lower detection limit	0.15 ppm
Sampling volume	35 ml
Response time	35 seconds
Accuracy (absolute)	2 ppm
Accuracy (relative)	5%
Offset calibration	Weekly
Span calibration	3 months
User replacement	Yes
Lifetime	2 years
Sensor type	Electrochemical

CO₂ Sensor

Range	0-100%
Resolution	0.01%
Lower detection limit.	0.5%
Sampling volume	12 ml
Response time	12 seconds
Accuracy (absolute)	0.5%
Accuracy (relative)	3%
Offset calibration	Weekly
Span calibration	12 months
User replacement	
Lifetime	15+ years
Sensor type	Infrared sensor,
	pyroelectric detector

O₂ Sensor

Range	0-100%
Resolution	0.1%
Lower detection limit	0.3%
Sampling volume	12 m
Response time	12 seconds
Accuracy (absolute)	0.3%
Accuracy (relative)	2%
Offset calibration	Weekly
Span calibration	6 months
User replacement	
Lifetime	2 years
Sensor type	Electrochemical

CONTINUOUS SAMPLING

C₂H₄ Sensor

Range	0-200 ppm
Resolution	0.1 ppm
Lower detection limit	0.2 ppm
Response time	80 seconds
Accuracy (absolute)	0.2 ppm
Accuracy (relative)	5%
Offset calibration	Weekly
Span calibration	3 months
User replacement	Yes
Lifetime	2 years
Sensor type	Electrochemical

CO₂ Sensor

Range	0-100%
Resolution	0.01%
Lower detection limit.	0.01%
Response time	6 seconds
Accuracy (absolute)	0.01%
Accuracy (relative)	3%
Offset calibration	Weekly
Span calibration	12 months
User replacement	No
Lifetime	15+ years
Sensor type	Infrared sensor,
	pyroelectric detector

O₂ Sensor

Range	0-100%
Resolution	0.1%
Lower detection limit	0.1%
Response time	12 seconds
Accuracy (absolute)	0.1%
Accuracy (relative)	2%
Offset calibration	Weekly
Span calibration	6 months
User replacement	Yes
Lifetime	2 years
Sensor type	Electrochemical









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