

F-960 * Ripen It! Gas Analyzer



The F-960 Ripen It! Gas Analyzer quickly and accurately measures ethylene, CO₂, and O₂ to assist with decision making throughout the produce ripening process. All three sensors work together to give you a clear picture of gas concentrations in ripening rooms.

The Ripen It! is a handheld unit that can easily be transported into ripening rooms or connected to rooms through external ports. Data is conveniently transferred from the device to a network using Bluetooth or the removable SD card.

Features



- Measures C₂H₄, CO₂ and O₂
- Displays results in under 30 seconds
- Past records stored on the device
- Handheld and lightweight
- Internal data logging and storage (4GB SD card)
- Bluetooth data transfer
- Battery lasts for 8+ hours
- Display easily viewed in dimly lit environments
- PolarCept!™ water filter for removing non-ethylene hydrocarbons

Uses

- Banana ripening quality assurance
- Optimization of ripening storage atmosphere conditions
- Bagged and packaged ripening system inspection
- Storage assignment in distribution centers
- Ripening room leak inspection

Specifications

Sampling Flow Rate:	70mL/min
Total Sampling Time:	90 seconds
Data Saving:	Automated, 1 second intervals
Display:	Sunlight visible transfective LCD
Operating Environment:	0°C - 50° C (0-90 % humidity non-condensing)
Operating Atmospheric Pressure:	500-1200mbar
Dimensions:	18 cm x 13.5 cm x 5.5 cm
Weight:	0.95 kg
Enclosure:	Powder coated aluminum
Battery Life:	8.5 hours
Power Source:	Removable rechargeable lithium-ion battery
PC Interface:	USB and WI-FI SD card + Bluetooth
Data Recorded with Each Measurement:	Ethylene, CO2 and O2 concentrations, date, time, RH, GPS location

Trigger Mode Measurements

	C₂H₄	CO₂	O₂
Sensor Type:	Electrochemical	IR Sensor, Pyroelectric detector	Electrochemical
Range:	0-1000ppm	0-100%	0-100%
Resolution:	1ppm	0.01%	0.10%
Lower Detection Limit:	10ppm	0.50%	0.30%
Sampling Volume:	35 ml	12 ml	12 ml
Response Time:	35 seconds	12 seconds	12 seconds
Accuracy (absolute):	10 ppm	0.50%	0.30%
Accuracy (relative):	5%	3%	2%
Offset Calibration:	Weekly	Weekly	Weekly
Span Calibration:	3 months	12 months	6 months
Sensor Replaceable (by user):	yes	no	yes
Lifetime:	1 year	5 years	2 years

Continuous Mode Measurements

	C₂H₄	CO₂	O₂
Sensor Type:	Electrochemical	IR Sensor, Pyroelectric detector	Electrochemical
Range:	0-1000 ppm	0-100%	0-100%
Resolution:	1 ppm	0.01%	0.10%
Lower Detection Limit:	2 ppm	0.01%	0.10%
Response Time:	90 seconds	6 seconds	12 seconds
Accuracy (absolute):	2 ppm	0.01%	0.10%
Accuracy (relative):	5%	3%	2%
Offset Calibration:	Weekly	Weekly	Weekly
Span Calibration:	3 months	12 months	6 months
Sensor Replaceable (by user):	yes	no	yes
Lifetime:	1 year	5 years	2 years