



## F-960

### Ripen It! Gas Analyzer

The F-960 Ripen It! Gas Analyzer **rapidly** measures ethylene, CO<sub>2</sub>, and O<sub>2</sub> to assist with decision making throughout the **produce ripening** process.

ETHYLENE

CO<sub>2</sub>

O<sub>2</sub>

Fast, accurate & cost-effective  
ripening analysis

## Product Features

- ▶ Measures C<sub>2</sub>H<sub>4</sub>, CO<sub>2</sub> and O<sub>2</sub>
- ▶ Displays results in under 30 seconds
- ▶ Past records stored on the device
- ▶ Handheld and lightweight
- ▶ Battery lasts for 8+ hours
- ▶ Wi-Fi capabilities
- ▶ Display easily viewed in dimly lit environments
- ▶ PolarCept!™ water filter for removing non-ethylene hydrocarbons

## Applications

- ▶ 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

## ■ F-960 Specifications

<b>Sampling flow rate</b>	70mL / min	<b>Operating environment</b>	0° C - 50° C
<b>Total Sampling Time</b>	90 seconds	<b>Weight</b>	0.95 kg
<b>Data saving</b>	Automated (1 sec)	<b>Enclosure</b>	Powder coated aluminum
<b>Display</b>	Sunlight Visible LCD	<b>Power source</b>	Rechargeable Battery (Li-ION)
<b>Dimensions</b>	18 cm x 13.5 cm x 5.5 cm	<b>PC interface</b>	USB, WIFI, SD card, Bluetooth
<b>Battery Life</b>	8.5 hours	<b>Operating Pressure</b>	500-1200mbar
<b>Data recorded</b>	Ethylene, CO <sub>2</sub> , O <sub>2</sub> concentrations, date, time, RH, GPS location		

### Headspace Sampling

	C <sub>2</sub> H <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>
<b>Sensor Type:</b>	Electrochemical	Infrared Sensor, Pyroelectric detector	Electrochemical
<b>Range:</b>	0-1000 ppm	0-100%	0-100%
<b>Resolution:</b>	1 ppm	0.01%	0.10%
<b>Lower Detection Limit:</b>	10 ppm	0.50%	0.30%
<b>Sampling Volume:</b>	35 ml	12 ml	12 ml
<b>Response Time:</b>	35 seconds	12 seconds	12 seconds
<b>Accuracy (absolute):</b>	10 ppm	0.50%	0.30%
<b>Accuracy (relative):</b>	5%	3%	2%
<b>Offset Calibration:</b>	Weekly	Weekly	Weekly
<b>Span Calibration:</b>	3 months	12 months	6 months
<b>User Replaceable Sensor:</b>	yes	no	yes
<b>Lifetime:</b>	1 year	5 years	2 years

### Continuous Sampling

	C <sub>2</sub> H <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>
<b>Sensor Type:</b>	Electrochemical	Infrared Sensor, Pyroelectric detector	Electrochemical
<b>Range:</b>	0-1000 ppm	0-100%	0-100%
<b>Resolution:</b>	1 ppm	0.01%	0.10%
<b>Lower Detection Limit:</b>	2 ppm	0.01%	0.10%
<b>Response Time:</b>	90 seconds	6 seconds	12 seconds
<b>Accuracy (absolute):</b>	2 ppm	0.01%	0.10%
<b>Accuracy (relative):</b>	5%	3%	2%
<b>Offset Calibration:</b>	Weekly	Weekly	Weekly
<b>Span Calibration:</b>	3 months	12 months	6 months
<b>User Replaceable Sensor:</b>	yes	no	yes
<b>Lifetime:</b>	1 year	5 years	2 years



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