



RIPEN IT!

GAS ANALYZER

C_2H_4

CO_2

O_2

- Real-time, continuous monitoring of CO_2 , O_2 and ethylene.
- Measure ethylene: 10 - 1000 ppm.
- Ethylene detection down to 1 ppm.

The F-960 Ripen It! Gas Analyzer **quickly and accurately** measures ethylene, CO_2 , and O_2 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 USB or the removable SD card.

KEY APPLICATIONS

- **Monitoring controlled atmosphere facilities**
to ensure the proper balance of gasses throughout operations.
- **Ripening room leak inspection**
with the option to take measurements in the room or connect via external ports.
- **Modified Atmosphere Packaging QA**
in packing lines, laboratories, import/export surveys, distribution centers, and retail centers.
- **Banana ripening inspection**
and control on various commodities.



SPECIFICATIONS

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

HEADSPACE SAMPLING

C₂H₄ Sensor

Range.....	10-1000 ppm
Resolution.....	1 ppm
Lower detection limit.....	10 ppm
Sampling volume.....	35 ml
Response time.....	35 seconds
Accuracy (absolute).....	10 ppm
Accuracy (relative).....	5%
Offset calibration.....	Weekly
Span calibration.....	3 months
User replacement.....	Yes
Lifetime.....	1 year
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.....	No
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 ml
Response time.....	12 seconds
Accuracy (absolute).....	0.3%
Accuracy (relative).....	2%
Offset calibration.....	Weekly
Span calibration.....	6 months
User replacement.....	Yes
Lifetime.....	2 years
Sensor type.....	Electrochemical

CONTINUOUS SAMPLING

C₂H₄ Sensor

Range.....	10-1000 ppm
Resolution.....	1 ppm
Lower detection limit.....	2 ppm
Response time.....	90 seconds
Accuracy (absolute).....	2 ppm
Accuracy (relative).....	5%
Offset calibration.....	Weekly
Span calibration.....	3 months
User replacement.....	Yes
Lifetime.....	1 year
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

