



ACCURRIPE

RIPENING ROOM CONTROLLER



- Reduce waste and spoilage.
- Remove guesswork and improve product consistency.
- Remote monitoring of facilities.

The ACCURRIPE Ripening Room Controller allows ripening, packing, and shipping managers to both monitor and control the levels of CO₂, O₂, and C₂H₄ (Ethylene) in monitored spaces. With the ability to easily report, scrub, and increase ripening gases, ACCURRIPE is revolutionizing the postharvest industry by minimizing spoilage risk, improving consistency and removing ripening room guesswork.

Minimize spoilage risk and improve ripening consistency remotely!

ACCURRIPE FEATURES

- Features 0-1000ppm, 0-200ppm or 0-10ppm C₂H₄ Sensor
- Onboard KMnO₄ Zero Gas Scrubber
- Remote Access via Network
- Robust Alert System
- DIY Annual "Maintenance by Mail"

ACCURRIPE CHASSIS

- Modbus Integration (TCP/IP & RS485)
- Water Resistant, Low Volume, Low Condensation Design
- Low Maintenance
- High Precision Internal Pump

GENERAL SPECIFICATIONS

	CONTROL UNIT	SENSOR UNIT
Enclosure	Powder coated aluminum	Powder coated aluminum, rated to IP68
Weight	0.88kg	0.98kg
Dimensions	172mm x 103mm x 55mm	172mm x 103mm x 55mm
Communication	Modbus TCP & RTU (RS485)	Modbus RTU (RS485), slave-only
User Interface	5" Touch Display, remote web browser, desktop app, MQTT API	-
Operating environment	-	0°C - 50°C, 15-90% relative humidity non-condensing
Measuring rate	Configurable	1-second or 5-min (default); intervals
Flow rate	-	120ml/min during sampling
Data storage	8GB	-
Power input	5VDC	12VDC
Alarm	Sound and email alarms	-
Integration	Configurable I/O for any compatible sensors/actuator via Modbus, configurable control algorithm (PID, ON/OFF, Open-Loop)	-
Programming	Control-event scheduler	-

SENSOR SPECIFICATIONS

	C ₂ H ₄	O ₂	CO ₂	T	RH	BAROMETRIC
Sensor type	Electrochemical	Electrochemical	NDIR	n/a	n/a	n/a
Range	0-1000ppm/0-200ppm/0-10ppm	0-100%	0-100%/0-20%	-40 to 120 C	0-100%	0-2000mbar
Lower detection limit	2ppm/0.5ppm/0.1ppm	0.10%	300ppm/70ppm	0.1C	0.10%	1mbar
Response time (T90)	<3 minutes	<5s	<20s	<5s	<5s	<5s
Accuracy	5% ± LDL	2% ± LDL	5% ± LDL	±0.2C	±2%	±1.5%
replaceable sensor	Yes	Yes	Yes	No	No	No
Lifetime	2 years in air	2 years in air	5 years	n/a	n/a	n/a

