



# 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 CO<sub>2</sub>, O<sub>2</sub>, and C<sub>2</sub>H<sub>4</sub> (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 C<sub>2</sub>H<sub>4</sub> Sensor
- Onboard KMnO<sub>4</sub> 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
<b>Enclosure</b>	Powder coated aluminum	Powder coated aluminum, rated to IP68
<b>Weight</b>	0.88kg	0.98kg
<b>Dimensions</b>	172mm x 103mm x 55mm	172mm x 103mm x 55mm
<b>Communication</b>	Modbus TCP & RTU (RS485)	Modbus RTU (RS485), slave-only
<b>User Interface</b>	5" Touch Display, remote web browser, desktop app, MQTT API	-
<b>Operating environment</b>	-	0°C - 50°C, 15-90% relative humidity non-condensing
<b>Measuring rate</b>	Configurable	1-second or 5-min (default); intervals
<b>Flow rate</b>	-	120ml/min during sampling
<b>Data storage</b>	8GB	-
<b>Power input</b>	5VDC	12VDC
<b>Alarm</b>	Sound and email alarms	-
<b>Integration</b>	Configurable I/O for any compatible sensors/actuator via Modbus, configurable control algorithm (PID, ON/OFF, Open-Loop)	-
<b>Programming</b>	Control-event scheduler	-

# SENSOR SPECIFICATIONS

	C <sub>2</sub> H <sub>4</sub>	O <sub>2</sub>	CO <sub>2</sub>	T	RH	BAROMETRIC
<b>Sensor type</b>	Electrochemical	Electrochemical	NDIR	n/a	n/a	n/a
<b>Range</b>	0-1000ppm/0-200ppm/0-10ppm	0-100%	0-100%/0-20%	-40 to 120 C	0-100%	0-2000mbar
<b>Lower detection limit</b>	2ppm/.05ppm/0.1ppm	0.10%	300ppm/70ppm	0.1C	0.10%	1mbar
<b>Response time (T90)</b>	<3 minutes	<5s	<20s	<5s	<5s	<5s
<b>Accuracy</b>	5% ± LDL	2% ± LDL	5% ± LDL	±0.2C	±2%	±1.5%
<b>replaceable sensor</b>	Yes	Yes	Yes	No	No	No
<b>Lifetime</b>	2 years in air	2 years in air	5 years	n/a	n/a	n/a

