

ACCUSTORE

PRECISION ATMOSPHERE CONTROL



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

The ACCUSTORE Storage Room Controller enables packing, shipping and distribution managers to precisely monitor and control the levels of CO₂, O₂, and C₂H₄ (Ethylene) in produce storage facilities. With highly precise sensors and the ability to control gas levels remotely, the F-901S is transforming the postharvest industry by improving consistency, repeatability and dramatically minimizing the risk of spoilage.

Minimize spoilage risk and improve storage consistency remotely!

ACCUSTORE FEATURES

- Features 0-10,000 ppb C₂H₄ Sensor
Maintain ppb Level Ethylene
Onboard KMnO₄ Zero Gas scrubber
- Remote Access via Network
- Robust Alert System
- DIY Annual "Maintenance by Mail"



ACCUSTORE 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 RTU (RS485) & TCP/IP (Ethernet),	Modbus RTU (RS485), slave-only
User Interface	7" 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	0-10,000ppb	0-100%	0-100%	-40 to 120 C	0-100%	0-2000mbar
Lower detection limit	0.1ppm	0.10%	100ppm	0.1C	0.10%	1mbar
Response time (T90)	<3 minutes	<5s	<20s	<5s	<5s	<5s
Accuracy	5% ± 0.1ppm	±2% ± 100ppm	±3% ± 300ppm	±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



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