



PRECISION ATMOSPHERE MONITOR **ACCUSTORE**



ACCUSTORE delivers precise atmospheric monitoring for fruit storage, ripening & retail environments, ensuring optimal quality & freshness.

RH



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C_2H_4



ACCUSTORE enables packing, shipping, distribution and retail facilities to monitor C_2H_4 (Ethylene) in produce storage. With highly accurate trace-sensing capability, ACCUSTORE is transforming the postharvest industry by improving consistency, repeatability and dramatically minimizing the risk of spoilage.

DEVICE SPECIFICATIONS

	CONTROL UNIT	SENSOR UNIT
Enclosure	Powder coated aluminum	Powder coated aluminum, rated to IP68
Weight	0.97kg	1.2kg
Dimensions	203mm x 123mm x 56mm	203mm x 150mm x 56mm
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	Continuous monitoring
Flow rate	-	120 mL/min (not modifiable)
Data storage	8GB	-
Power input	5VDC	12VDC
Alarm	Sound and email alarms	Sound and multi-color LED
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 0-10	C ₂ H ₄ 0-200	T	RH
Sensor type	Electrochemical	Electrochemical	n/a	n/a
Range	0-10 ppm	0-200 ppm	-40 to 120 C	0-100%
Lower detection limit	0.030 ppm	0.2 ppm	0.1C	0.10%
Response time (T90)	70 seconds	80 seconds	<5s	<5s
Resolution	0.010 ppm	0.1 ppm	n/a	n/a
Accuracy	n/a	n/a	±0.2C	±2%
Replaceable sensor	Yes	Yes	No	No
Lifetime	2 years in air	2 years in air	n/a	n/a

*Specifications are preliminary and subject to change.