



# PRECISION ATMOSPHERE MONITOR **ACCUSTORE**



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

RH



T



$C_2H_4$



**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
<b>Enclosure</b>	Powder coated aluminum	Powder coated aluminum, rated to IP68
<b>Weight</b>	0.97kg	1.2kg
<b>Dimensions</b>	203mm x 123mm x 56mm	203mm x 150mm x 56mm
<b>Communication</b>	Modbus RTU (RS485) & TCP/IP (Ethernet),	Modbus RTU (RS485), slave-only
<b>User Interface</b>	7" 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	Continuous monitoring
<b>Flow rate</b>	-	120 mL/min (not modifiable)
<b>Data storage</b>	8GB	-
<b>Power input</b>	5VDC	12VDC
<b>Alarm</b>	Sound and email alarms	Sound and multi-color LED
<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> 0-10	C <sub>2</sub> H <sub>4</sub> 0-200	T	RH
<b>Sensor type</b>	Electrochemical	Electrochemical	n/a	n/a
<b>Range</b>	0-10 ppm	0-200 ppm	-40 to 120 C	0-100%
<b>Lower detection limit</b>	0.030 ppm	0.2 ppm	0.1C	0.10%
<b>Response time (T90)</b>	70 seconds	80 seconds	<5s	<5s
<b>Resolution</b>	0.010 ppm	0.1 ppm	n/a	n/a
<b>Accuracy</b>	n/a	n/a	±0.2C	±2%
<b>Replaceable sensor</b>	Yes	Yes	No	No
<b>Lifetime</b>	2 years in air	2 years in air	n/a	n/a

\*Specifications are preliminary and subject to change.

