

NOTHING within a growroom or greenhouse is more important than having a high degree of confidence that the environmental conditions are exactly what they are supposed to be. Accurate sensors are the first step to providing that confidence. Croptiva understands this and that is why even our “Standard” 4-in-1 sensor outperforms many other higher priced environmental sensors.

The SAIR-1 4-in-1 sensor is the standard Environmental Sensor that is included with the SEN-1 / **Sentry** and GUARD-1 / **Guardian** controllers. The 4-in-1 Environmental sensor uses precision sensor elements to accurately measure Temperature, Humidity, CO₂, VPD, CO₂ (ppm). There is also a built-in photocell that is used to determine whether it is daytime or nighttime. All of the sensors used within the SAIR-1 have been selected for their high-accuracy and stability as well as their specific ability to resist high moisture levels normally present within growing spaces.

To connect the SAIR-1 module, simply connect it to the RJ12 Sensor / Device port on your Croptiva controller using the provided RJ12 cable and Y-splitters. You can replace multiple RJ12 Y-splitters with the UNIVERSAL multi-port RJ12 “powered” hub (RJ-HUB) to provide a centralized wiring “hub” to connect multiple device modules (AND sensors) to your Croptiva main controller. The RJ-HUB and Croptiva’s UNIVERSAL expansion ports provide a cleaner and more effective cable connection system.

For best performance it should be located in an area where it is not exposed directly to cold or hot air, and not positioned near air ducts / outlets from dehumidifiers or humidifiers which could affect its measurements. Position the sensor at “canopy height” near the center of the space being monitored, but not too close to artificial lights to avoid incorrect temperature readings.

The SAIR-1 4-in-1 sensor is NOT waterproof and must be positioned so that it is not exposed to mist or moisture directly. The SAIR-1 should be positioned at about canopy height for best performance.

***DO NOT SPRAY OR ALLOW CHEMICALS OR WATER TO COME INTO CONTACT WITH THE SAIR-1 SENSOR.**

SAIR-1 / Specifications



Model	SAIR-1 / 4-in-1 Environmental sensor
Protection Level	IP20
Product Dimensions	6.29x1.73x1.33" / 160x44x34mm
Operating Temperature	0-50° C
Operating Humidity	≤90%, Non-Condensing
Operating Voltage	DC 24V
Power Consumption	Average 10mA, peak 60mA
Temp Measurement range	0-50°C / 32-122°F
Temp Accuracy	±0.2°C / ±0.4°F
Humid Measurement range	0-90% RH
Humid Accuracy	±1% RH
CO ₂ Measurement range	400-2500 PPM
CO ₂ Accuracy	±40 PPM / ±3% of reading
CO ₂ Annual drift	≤25 PPM
Photocell Function	Determines Day / Night only
Cable type / Connection	RJ12, 6P6C, 6-wire cable
Communication type	Modbus
Certifications	FCC