

GrowControl™ SXC is a precision agricultural climate sensor featuring temperature, humidity, and ambient light sensors standard. Optional CO2 ppm sensor allows accurate readings up to 40,000 ppm. Optional PLIR™ downward-looking plant-leaf infrared sensor provides real-time leaf temperatures for VPD measurements.

Compact sensor array features an improved enclosure design for enhanced durability and performance. Fan aspirated for continuous accuracy and protected with a no-tool servicable air filter.






Digital temperature/humidity chip offers high stability and accuracy with specialized filters to protect the sensor element from dew and dust. Integrated light sensor delivers readings in $\mu\text{mol}/\text{m}^2/\text{s}$ (ppfd) with ultra-low light sensitivity for detecting light leaks.

Sensor hangs above the crop canopy and connects to Agrowtek's GrowControl™ GCX Cultivation Controllers as part of a complete facility control solution.

Compatible with third-party PLC's and building automation controls with a LX2 ModLINK™ for MODBUS RTU .

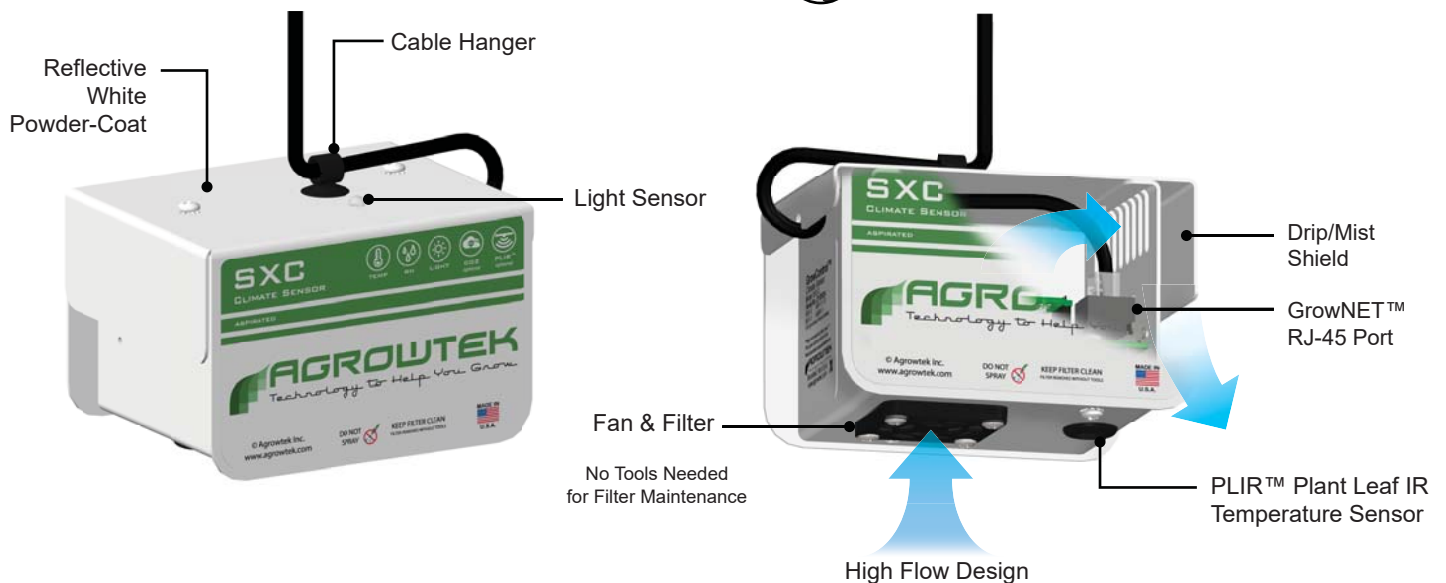


Sensors

-  Air Temperature
-20 - 60°C / 0 - 140°F
-  Relative Humidity
0 - 99% RH (80% RH max continuous)
-  Light (PPFD)
0 - 5000 $\mu\text{mol}/\text{m}^2/\text{s}$
-  Carbon Dioxide (optional)
0 - 40,000 ppm
-  PLIR™ Plant Leaf IR Temperature (optional)
-40 - 85°C / -40 - 185°F


Features

-  Fan Aspirated with Dust Filter for High Accuracy
-  GrowNET™ Digital Communication Port
-  MODBUS RTU via LX2 ModLINK
Optional 4-Channel 4-20mA Module
-  Durable & Corrosion Resistant Powder-Coated Aluminum Enclosure
-  1-Year Warranty
-  Made in USA



PLIR™ Plant Leaf Temperature Sensor

PLIR™ plant leaf IR sensor option measures the surface temperature of the plant canopy below the SXC environment sensor. Precision temperature values are used to accurately calculate the VPD (vapor pressure deficit) in real-time.

 Leaf Surface Temperature

 Vapor Pressure Deficit (VPD)
Calculated at GCX controller



∠ 37.5° Sensor Angle

Range (R)	Spot Diameter (D)
12"	8"
24"	16"
36"	24"
48"	32"

GrowControl™ GCX Controller



Connect to GrowControl™ Cultivation Controllers for advanced functions as part of a complete facility control solution. GrowControl™ GCX systems feature intelligent control functions optimized for today's complex growing environments.

MODBUS



GrowNET™ devices are easy to implement on PLC systems with MODBUS RTU. The LX2 ModLINK™ interfaces GrowNET™ devices with serial RS-485. Multiple GrowNET™ devices can be connected to an LX2 by adding HX8 GrowNET™ hubs.

Ordering Options

SXC - C - IR

PLIR™ Infrared Sensor

CO2 PPM Sensor

Temperature, Humidity & Light

Optional Accessories



LX1

USB
AgrowLINK™



LX2

RS-485
ModLINK™



HX8

GrowNET™
Device Hub