SXC
Precision Climate Sensor

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 privdes 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 umol/m2/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.

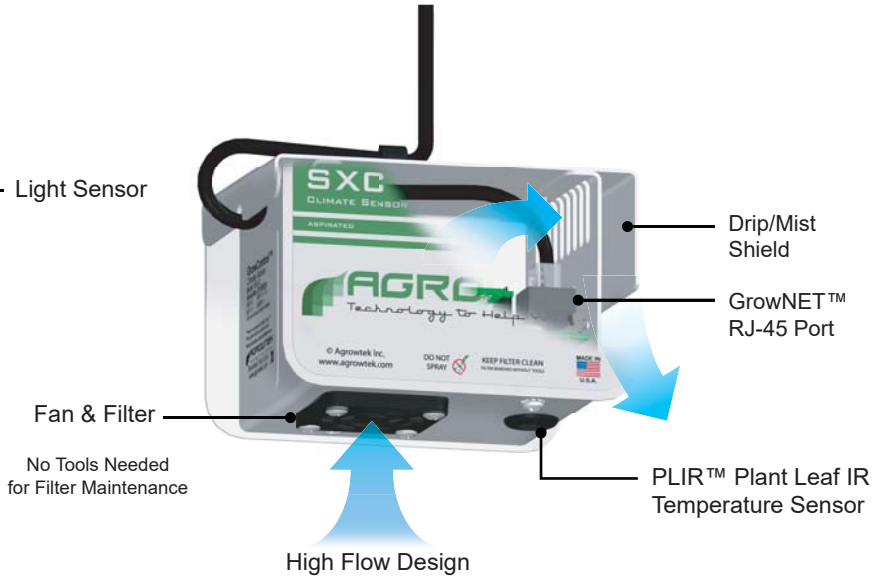
Sensors

- Air Temperature
  -20 - 60°C / 0 - 140°F
- Relative Humidity
  0 - 99% RH (80% RH max continuous)
- Light (PPFD)
  0 - 5000 umol/m2/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

External Dimensions: 4.75" x 3.62" x 3.00"



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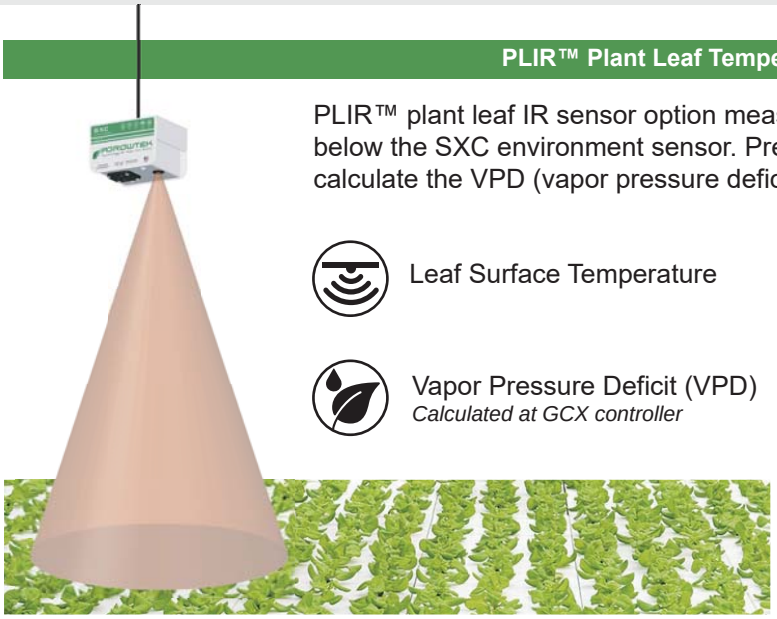
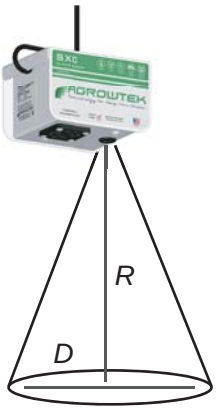
PLIR™ Plant Leaf Temperature Sensor



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

Modbus

GrowNET™ devices are easy to implement on PLC systems with MODBUS RTU. Use the LX2 ModLINK™ to interface GrowNET™ devices with serial RS-485, or the LX1 AgrowLINK™ for USB. Multiple GrowNET™ devices can be connected by adding HX8 GrowNET™ hubs.

Ordering Options

SXC - C - IR

- IR — PLIR™ Infrared Sensor
- C — CO2 PPM Sensor
- SXC — Temperature, Humidity & Light

Optional Accessories

LX1
USB
AgrowLINK™

LX2
RS-485
ModLINK™

HX8
GrowNET™
Device Hub