

growlink 



ESM2 Pro Climate Sensor

4 in 1 Climate Sensor (BACnet)

Growlink is an agriculture software company that optimizes performance for cutting-edge greenhouses and indoor farms.





Features

The Modular 4 in 1 Probe for CO₂, Humidity, Temperature and VPD from Growlink is a highly versatile sensor that provides accurate and reliable measurements of environmental conditions. Designed for use specifically for CEA.

Compatible with Core & Connect Controllers.



4 in 1: CO₂, RH, Temp and VPD measurement



Excellent long-term stability



IP65 protection class.



Low power consumption



Dual wavelength NDIR CO₂ measuring principle



CO₂ measuring range up to 5,000 ppm



Replaceable sensing module.



BACnet MS/TP.



High insensitivity to pollution



User configurable and adjustable



Benefits

Maintain your grow space in peak condition with the industry's best sensor, offering superior longevity and resilience in the toughest environments. Experience top-tier real-time monitoring of temperature, humidity, VPD, and CO₂, all backed by the strongest warranty available.

Connectivity Simplified

Through hardwired communication via BACnet MS/TP, the ESM2 ensures effective connectivity enabling efficient data exchange and control.

Durable Defense

The IP65 enclosure exhibits durability and offers protection against various environmental factors.

Sensor Integration

Link multiple sensors to a singular controller for streamlined monitoring and control.



Specifications

CO₂

Measuring Range: 0...5000 ppm
Accuracy: $\pm (50 \text{ ppm} + 3\% \text{ mv}^*)$

Relative Humidity

Measuring Range: 0...95% RH
(non-condensing)
Accuracy @ 25°C (77°F): 20...80% RH:
 $\pm 3\% \text{ RH}$ 0...95% RH: $\pm 5\% \text{ RH}$

Temperature

Measuring Range: -40...60 °C (-40...140 °F)
Accuracy in the range of 5...60 °C (41...140 °F):
 $\pm 0.5 \text{ °C}$ ($\pm 0.9 \text{ °F}$)

Pressure

Measuring Range: 700...1100 mbar
(10.15...15.95 psi)
Accuracy @ 25°C (77°F): $\pm 2 \text{ mbar}$

Output

BACnet MS/TP

Supply

12-30 VDC (voltage / RS485)



ESM2 Pro Climate Sensor
Quick Start Guide

Compatible with:
Growlink OS



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