Guardian CEA Multi-Sensor

Monitors PAR or ePAR, DLI, humidity, CO2, VPD, and air temperature

NEW!



Introduction

- Accurate measurements of the most important indoor environmental parameters in one elegant device
- Works as a stand-alone device or integrates into systems for greenhouses, grow rooms, and vertical farms

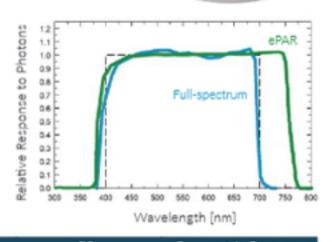
Features

- User-friendly, accurate datalogger with multiple integrated sensors
- PAR or extended PAR sensor options
- Data can download to smartphones or dataloggers via Modbus or Bluetooth
- Graphical summaries of data over days, weeks, or months with the ApogeeConnect app for iOS and Android
- Hangs by thin wires or mounts to a mast
- Integrators should contact Apogee for deployment opportunities

Measurements

- · Fan-aspirated air temperature
- Instantaneous PAR or ePAR
- Daily light integral (DLI)*
- Photoperiod*
- Humidity
- · Vapor pressure deficit and dewpoint
- CO, concentration
- Barômetric pressure

*DLI and photoperiod measurements are only accessible via Bluetooth



	SM-500 (PAR)	SM-600 (ePAR)	Temperature	Relative Humidity	CO ₂	Barometric Pressure
Calibration Uncertainty	± 5 %		± 0.2 C	± 3 % from 20 to 80	± 50 ppm + 2 % of the measured value	
Long-term Drift (non-stability)	Less than 2 % per year		Less than 0.02 C	-		
Measurement Range	0 to 4000 μmol m ⁻² s ⁻¹		-60 to 80 C	0 to 95 %	0 to 2000 ppm	70 to 110 kPa
Spectral Range	389 to 692 nm	383 to 757 nm			-	
Temperature Response	-0.11 % ± % per C					
Operating Environment	-40 to 60 C with 0 to 95 % relative humidity					
Connectivity	Modbus (RS232 and RS485) and/or Bluetooth					
Current Draw	Typical: 92 mA at 12 V; Peak: 500 mA at 12V					
Data Storage	9 months of 1 min data					
IP Rating	IP53					