DATA SHEET

QUANTUM PAR LIGHT SENSOR

SKU: 990-0002-01

Rugged, self-powered PAR sensor for reliable light measurement in plant environments.

The PAR Light Sensor measures photosynthetically active radiation with high accuracy and zero external power. Ideal for greenhouse and field applications, it features a waterproof aluminum housing, analog output, and a leveling plate for proper installation—ensuring consistent, research-grade light data for plant growth analysis.

SPECIFICATIONS	DETAILS
Power Supply	Self-powered
Output (sensitivity)	0.1 mV per µmol m^{-2} s^{-1}
Calibration Factor	10 µmol m^{-2} s^{-1} per mV
Measurement Repeatability	Less than 0.5%
Measurement Range	0 to 2,500 µmol m^{-2} s^{-1}
Non-linearity	Less than 1 %
Response Time	Less than 1 ms
Field of View	180°
Operating Environment	-10 to 60C; 0 to 100% relative humidity; can be submerged in water
Dimensions	30.5 mm diameter, 36.6 mm height

Performance

- ±5% calibration uncertainty; <0.5% repeatability
- Fast response (<1 ms) and low drift (<2% per year)
- Spectral Range: 370 to 650 nm (wavelengths where response is greater than 50 % maximum)

Connectivity

- Analog output: 0–250 mV proportional to PPFD
- Shielded pigtail cable with marine-grade IP68 M8 connector

What's Included

- Quantum sensor head
- Stainless steel leveling plate with integrated bubble level
- 20 m shielded cable with pigtail
- Mounting screw, cable tie, and sensor cap