

QUANTUM PYRANOMETER 5600-0603



MEASURES PHOTOSYNTHETICALLY ACTIVE RADIATION (PAR) IN THE 400 TO 700 NM WAVEBAND.

FEATURES

- Used by agriculturists, botanists, horticulturists, ecologists, and environmental scientists to measure PPFD (Photosynthetic Photon Flux Density) in the atmosphere, growth chamber, and greenhouse
- Accurate measurements under natural and artificial light conditions
- Colored glass filters are used to tailor the response to the desired waveband using an interference filter to provide a sharp cutoff at 700 nm which prevents any infrared light from being measured.

ORDERING

5600-0603-1 Pyranometer, Quantum PAR, with mounting, leveling fixture and millivolt adapter (not shown)

Accessories

6661-1098-1 Mounting Kit, Pyranometer

Or for 8200 set J14 to -DIFFIN and J15 to +DIFFIN. Wire sensor to Analog 6 & 7. Configure "Pressure" sensor for slope 1/sensitivity. See page 6-3 of 8210/8200A manual.

SPECIFICATIONS

Specifications subject to change without notice

Spectral Range	400 to 700 nm
Accuracy	± 5% traceable to NIST
Sensitivity	Typical 5µA per 1000 µmol s ⁻¹ m ⁻²
Linearity	Max. deviation of 1% up to 10,000 µmol s ⁻¹ m ⁻²
Stability	< ± 2% change over one-year period
Response Time	10 µs
Temperature	± 0.15% per °C maximum
Dependence	
Cosine Correction	Cosine corrected up to 80° angle of incidence
Azimuth	< ±1% error over 360° at 45° elevation
Tilt	No error induced from orientation
Operating	
Temperature	-40°C to +65°C (-40°F to +149°F)
Relative Humidity	0% to 100% RH
Detector	High stability silicon photovoltaic detector (blue enhanced)
Sensor Housing	Weatherproof anodized aluminum case with acrylic diffuser and stainless steel hardware
Millivolt Adapter	604 Ω (ohm) precision resistor to convert sensor output from microamps to millivolts
Size	2.38 cm Dia x 2.54 cm H (0.94 in. x 1 in.)
Weight	28 g (1 oz)
Cable Length	3m (10 ft.) standard

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