

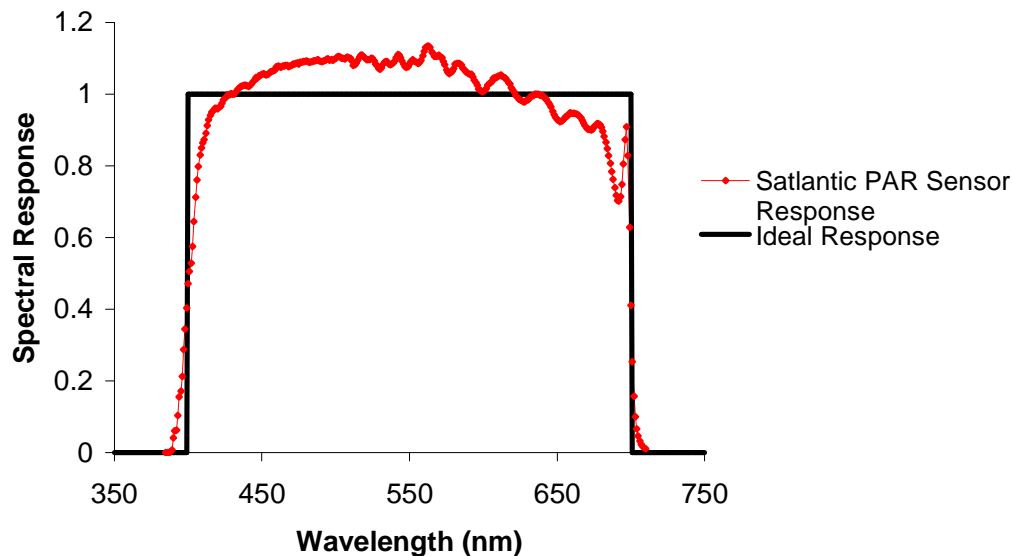


PHOTOSYNTHETICALLY ACTIVE RADIATION (PAR) SERIES

Satlantic's new series of Photosynthetically Active Radiation (PAR) sensors provide highly accurate measurements of PAR (400 – 700 nm) for a wide range of aquatic and terrestrial applications. From limnologists and oceanographers to plant and crop physiologists, our PAR sensors provide superior data along with high quality construction to stand up even in the harshest conditions.



Available in both shallow (600 m) and deep water (7000 m) configurations Satlantic's series of PAR sensors provide the flexibility for measurements in any environment. In addition, sensors are also available with a logarithmic output specifically designed to interface with CTD's or other devices that require a limited range of signal input.



The ideal spectral response for a PAR sensor is one that gives equal emphasis to all photons between 400 – 700 nm. Satlantic PAR sensors use a high quality filtered silicon photodiode to provide a near equal spectral response across the entire wavelength range of the measurement.

For additional information about Satlantic's PAR sensor, please visit www.satlantic.com/par.



TYPICAL APPLICATIONS:

- Oceanographic and Freshwater Productivity Studies
- Vertical Profiling
- Laboratory Photosynthetic Physiology Studies
- Agronomic and Terrestrial Productivity Studies
- Meteorological Stations

PAR SPECIFICATIONS

PHYSICAL SPECIFICATIONS:

Housing Material:	Available in Acetyl or Stainless Steel
Depth Rating:	600 m (acetyl) or 7000 m (stainless steel)
Weight (in air):	0.127 kg (acetyl) or 0.643 kg (stainless steel)
Length:	7.6 cm (acetyl) or 8.3 cm (stainless steel)
Width:	3 cm (acetyl) or 3.8 cm (stainless steel)

ELECTRICAL SPECIFICATIONS:

Input Voltage:	6 – 30 VDC
Current Draw:	5 mA
Analog Output Range:	0 – 5 V (linear or log amp)

OPTICAL SPECIFICATIONS:

Calibrated range:	0 – 5000 $\mu\text{mol photons}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$
Calibration accuracy:	$\pm 5\%$ NIST Traceable (in air)
Bandpass:	400 – 700 nm
Cosine Collector:	0 - 60° $\pm 1.6\%$; 60 – 85° $\pm 4.1\%$ (in water) 0 - 60° $\pm 1\%$; 60 – 85° $\pm 4.7\%$ (in air)

*Specifications may change without notice.
January 2008*