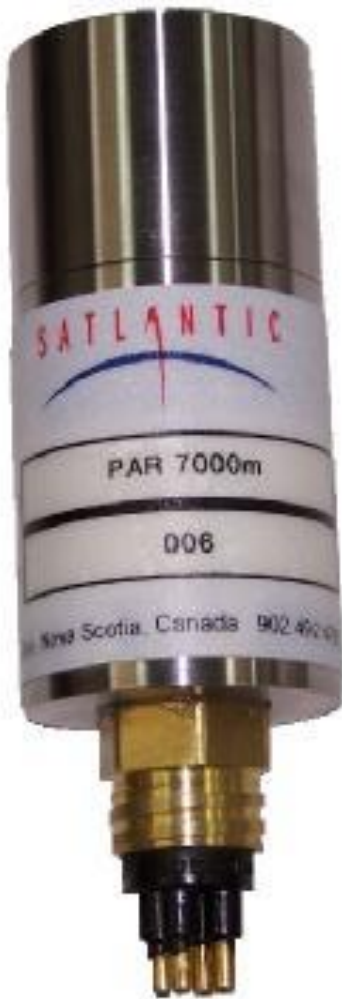
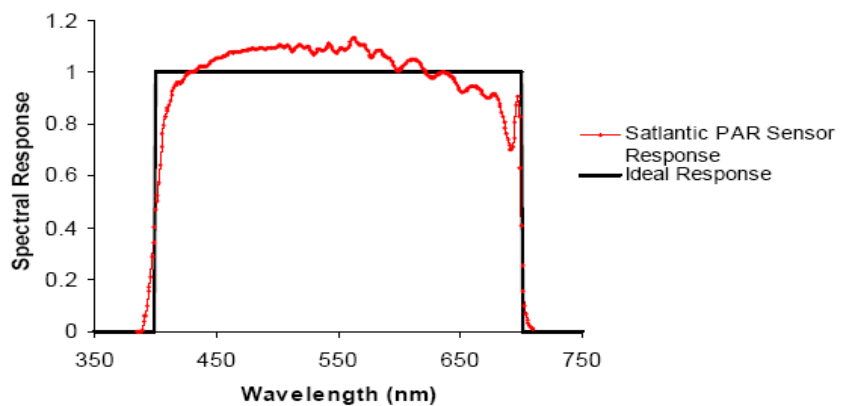


PAR SENSOR



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.

Applications:

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

Specifications:

Physical Specifications:

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

Electrical Specifications:

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

Optical Specifications:

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



REF – PAR iss A SEP 2007