

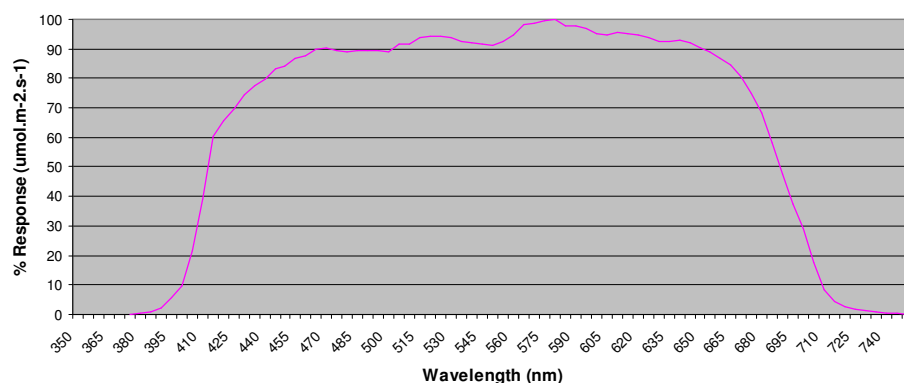
PAR Sensor

For over 25 years, PP Systems has been manufacturing high quality instrumentation for researchers worldwide. We offer a sensor for accurate measurement of quantum flux of PAR (Photosynthetically Active Radiation) for use with our range of CO₂ infrared gas analyzers enhancing measurement capability.

This PAR sensor forms a self-contained unit for portable or static operation. The sensor and conditioning circuit are mounted in a waterproof aluminum housing.



Sensor Response



Technical Specification

Spectral Range	400-700 nm
Detector	Silicon photocell
Absolute Calibration Error (1)	Typically <3%, max 5%
Filters	Optical glass
Construction	Anodized aluminum and "Delrin" acetal. Cosine corrected head. Waterproof to IP68, submersible, guaranteed to 4m depth
Dimensions	34 mm diameter, 65 mm height
Weight	200g, including 1m cable & connector
Power Supply	5-15 VDC @ 2mA
Output	0-1V = 0-3000 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$
Response Time	50 ms
Cable	1 meter, 4 core screened 7-1-4C
Connector	15 pin D connector
Operating Environment	0-100% RH, -20 to +70 °C

(1) Main source of this error is uncertainty of calibration of Reference Lamp. Calibration standards are directly traceable to N.P.L. standard references.

PP Systems recommends sensor calibration at least every two years.

PP Systems is continuously updating its products and reserves the right to amend product specifications without notice.

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Data Sheet