


PAR Quantum SENSOR

IM507D
IM5079D

Photosynthetically Active Radiation (PAR), is typically measured as Photosynthetic Photon Flux Density (PPFD), which has units of quanta (photons) per unit time per unit surface area. The units most commonly used are micromoles of quanta per second per square meter (µmol s-1 m-2). Plant scientists, horticulturists, ecologists, and other environmental scientists use MD507D Quantum Sensors to accurately measure this variable.

Sensor	EG&G VACTEC VTB1012B
Calibration	Calibration against LI-190SZ under daylight Absolute difference max. 5%, typical 3%
Linearity	Maximum deviation of 1% up to 3000 W/m²
Stability	2% change over a 1 year period
Response Time	150 ms
Temperature dependency	0.15% per Centigrade
Cosine correction	Cosine corrected up to 80 degree of incidence
Azimuth	1% error over 360 degree at 45 degree elevation
Operating specs.	-20°C to 65°C, 0 -100 % rel H.
Housing	Weatherproof PAS case with acrylic diffuser, stainless steel hardware
Size and Weight	3.5 Dia.x 3.5 cm, 15g
Evaluation	PWM: 0 - 80% duty cycle. = 0 – 20 kJ/m²
Part.no. IM507D	PAR Quantum Sensor „Economic“
Part.no. IM5071D	PAR Quantum Sensor „Economic“ with 5 meter cable
Part.no. IM5079D	PAR Quantum Sensor with leveling plate, holder and 5 meter cable