

Job No.: L9658

Calibration Date: 07/25/07
Model Number: QCP2300-HP
Serial Number: 70136
Operator: AMB
Standard Lamp: HEC1630(10/25/2006)
Operating Voltage Range: 6 to 15 VDC (+)

**Note: The QCP2300-HP output is a voltage that is proportional to the log of the incident irradiance. To calculate irradiance, use this formula:
Irradiance = Calibration factor * (10^Light Signal Voltage - 10^Dark Voltage)**

Dry Calibration Factor: 3.02E+12 quanta/cm²-sec per volt 5.01E-06 μEinsteins/cm²-sec per volt
Wet Calibration Factor: 3.18E+12 quanta/cm²-sec per volt 5.27E-06 μEinsteins/cm²-sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 4.8 mA
Supply Voltage: 6 Volts
Lamp Integrated PAR Irradiance: 9.56E+15 quanta/cm²-sec 0.01588 μEinsteins/cm²-sec
Immersion Coefficient: 0.95

Nominal Filter OD	Expected Transmission	Calibrated Trans.	Sensor Voltage	Expected Voltage	Voltage % Error	Measured Trans.	Transmission Error (%)	Test Irrad. (quanta/cm ² -sec)
No Filter	100%	100.00%	3.501	3.501	0%	100.00%	0.0	9.56E+15
0.3	50%	36.10%	3.061	3.059	0%	36.25%	-0.4	3.47E+15
0.5	32%	27.60%	2.944	2.942	0%	27.69%	-0.3	2.65E+15
1	10%	9.27%	2.477	2.468	0%	9.43%	-1.7	9.05E+14
2	1%	1.11%	1.563	1.546	1%	1.12%	-1.1	1.10E+14
3	0.10%	0.05%	0.403	0.229	43%	0.05%	11.1	7.63E+12
RG780	0.00%	0.00%	0.003	0.003	0%	0.00%	-100.0	3.04E+12

Dark Before: 0.003 Volts
Light - No Filter Hldr.: 3.502 Volts
Dark After - NFH: 0.003 Volts
Average Dark 0.0030 Volts

Notes:

- 1. Annual calibration is recommended.
- 2) This section is for internal use and for more advanced analysis.