

Job No.: L9658

Calibration Date: 07/25/07
Model Number: QCP2300-HP
Serial Number: 70135
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: 3.17E+12 quanta/cm²-sec per volt 5.27E-06 μEinsteins/cm²-sec per volt
Wet Calibration Factor: 3.34E+12 quanta/cm²-sec per volt 5.55E-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
Immersion Coefficient: 0.95 μEinsteins/cm²-sec

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%	3.479	3.479	0%	100.00%	0.0	9.57E+15
0.3	50%	36.10%	3.034	3.037	0%	35.83%	0.8	3.43E+15
0.5	32%	27.60%	2.923	2.920	0%	27.78%	-0.6	2.66E+15
1	10%	9.27%	2.453	2.446	0%	9.39%	-1.2	9.01E+14
2	1%	1.11%	1.533	1.524	1%	1.10%	1.0	1.08E+14
3	0.10%	0.05%	0.352	0.207	41%	0.04%	29.8	7.14E+12
RG780	0.00%	0.00%	0.004	0.004	-2%	0.00%	-100.0	3.21E+12

Dark Before: 0.004 Volts
Light - No Filter Hldr.: 3.479 Volts
Dark After - NFH: 0.004 Volts
Average Dark: 0.0045 Volts

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