

Calibration Date: 03/27/14
Model Number: QCP2300-HP
Serial Number: 70135
Operator: TPC
Standard Lamp: V-033(3/7/12)
Operating Voltage Range: 6 to 15 VDC (+)

Job No.: R11885

Note: The QCP2300-HP output is a voltage that is proportional to the log of the incident irradiance. To calculate irradiance, use this formula:

$$\text{Irradiance} = \text{Calibration factor} * (10^{\text{Light Signal Voltage}} - 10^{\text{Dark Voltage}})$$

Dry Calibration Factor: 3.41E+12 quanta/cm²·sec per volt 5.67E-06 μEinsteins/cm²·sec per volt
Wet Calibration Factor: 3.67E+12 quanta/cm²·sec per volt 6.09E-06 μEinsteins/cm²·sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 3.5 mA

Supply Voltage: 6 Volts

Lamp Integrated PAR Irradiance: 9.34E+15 quanta/cm²·sec 0.01551 μEinsteins/cm²·sec

Immersion Coefficient: 0.931

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%	3.438	3.438	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.004	2.995	0%	36.79%	-1.9	3.44E+15
0.5	32%	27.60%	2.881	2.878	0%	27.74%	-0.5	2.59E+15
1	10%	9.27%	2.415	2.405	0%	9.45%	-1.9	8.83E+14
2	1%	1.11%	1.497	1.483	1%	1.11%	0.0	1.04E+14
3	0.10%	0.05%	0.344	0.165	52%	0.04%	21.9	4.12E+12
RG780	0.00%	0.00%	0.004	0.004	-4%	0.00%	-100.0	3.00E+10

Dark Before: 0.004 Volts
 Light - No Filter Hldr.: 3.437 Volts
 Dark After - NFH: 0.004 Volts
 Average Dark: 0.0039 Volts

Notes:

1. Annual calibration is recommended.

2) This section is for internal use and for more advanced analysis.