

Calibration Date: 02/17/15
Model Number: QCP2300-HP
Serial Number: 70135
Operator: TPC
Standard Lamp: V-033(3/7/12)

Job No.: R12173

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:

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

Dry Calibration Factor: 3.24E+12 quanta/cm²·sec per volt 5.39E-06 μEinsteins/cm²·sec per volt
Wet Calibration Factor: 3.49E+12 quanta/cm²·sec per volt 5.79E-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%	3.459	3.459	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.017	3.017	0%	36.04%	0.2	3.37E+15
0.5	32%	27.60%	2.906	2.900	0%	27.94%	-1.2	2.61E+15
1	10%	9.27%	2.437	2.426	0%	9.47%	-2.1	8.84E+14
2	1%	1.11%	1.519	1.505	1%	1.11%	-0.2	1.04E+14
3	0.10%	0.05%	0.346	0.187	46%	0.04%	27.1	3.95E+12
RG780	0.00%	0.00%	0.004	0.004	0%	0.00%	-100.0	2.93E+10

Dark Before: 0.004 Volts
 Light - No Filter Hldr.: 3.460 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.