

Calibration Date: 02/26/15

Model Number: QSP2300

Serial Number: 70368

Operator: TPC

Standard Lamp: V-033(3/7/12)

Operating Voltage Range: 6 to 15 VDC (+)

Job No.: R12149

Note: The QSP2300 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: 3.24E+12 quanta/cm²·sec per volt 5.38E-06 μEinsteins/cm²·sec per volt

Wet Calibration Factor: 5.72E+12 quanta/cm²·sec per volt 9.50E-06 μEinsteins/cm²·sec per volt

Sensor Test Data and Results²⁾

Sensor Supply Current (Dark): 3.3 mA

Supply Voltage: 6 Volts

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

Immersion Coefficient: 0.566

Nominal	Expected	Calibrated	Sensor	Expected	Voltage %	Measured	Transmission	Test Irrad.
Filter OD	Transmission	Trans.	Voltage	Voltage	Error	Trans.	Error (%)	(quanta/ cm ² ·sec)
No Filter	100%	100.00%	3.460	3.460	0%	100.00%	0.0	9.34E+15
0.3	50%	36.10%	3.021	3.018	0%	36.37%	-0.7	3.40E+15
0.5	32%	27.60%	2.906	2.901	0%	27.90%	-1.1	2.61E+15
1	10%	9.27%	2.432	2.427	0%	9.34%	-0.8	8.73E+14
2	1%	1.11%	1.508	1.505	0%	1.08%	2.6	1.01E+14
3	0.10%	0.05%	0.307	0.188	39%	0.04%	51.1	3.33E+12
RG780	0.00%	0.00%	0.004	0.004	1%	0.00%	-100.0	2.90E+10

Dark Before: 0.004 Volts

Light - No Filter Hldr.: 3.460 Volts

Dark After - NFH: 0.004 Volts

Average Dark 0.0038 Volts

Notes:

1. Annual calibration is recommended.

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