

# PAR Calibration Sheet

Date: 8/23/2023

S/N: PARSB-8466

## PAR Scale Factor

$PAR = I_m * 10^{(x-a_0)/a_1}$  if the sensor is immersed in water

$PAR = 1.0 * 10^{(x-a_0)/a_1}$  if the sensor is not immersed

Where,

PAR =  $\mu\text{mol photons/m}^2/\text{s}$

x = counts

	Analog	Digital
<b><math>I_m</math></b>	1.3589	1.3589
<b><math>a_1</math></b>	0.893	2923.827
<b><math>a_0</math></b>	1.307	4286.130

For users of SEASOFT, Sea-Bird Electronics' data processing software, calibration coefficients are converted in accordance with Sea-Bird Electronics application note No. 11 QSP-L. The corresponding coefficients for use in SEASOFT are:

multiplier	1	In Air
multiplier	1.359	In Water
M	0.893	
B	1.307	
Calibration_const	$1.0 * 10^9$	
offset	0	