## Sea-Bird Electronics, Inc.

## 13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1069 CALIBRATION DATE: 01-Jul-15 SBE 63 OXYGEN CALIBRATION DATA

## COEFFICIENTS:

A0 = 1.0513e + 000 B0 = -2.0567e - 001 C0 = 1.0978e - 001 E = 1.1000e - 002 A1 = -1.5000e - 003 B1 = 1.5444e + 000 C1 = 4.6656e - 003

A2 = 3.3684e-001 C2 = 6.3253e-005

BATH	BATH	BATH	INSTRUMENT	INSTRUMENT	RESIDUAL
OXYGEN (ml/l)	TEMPERATURE (° C)	SALINITY (PSU)	OUTPUT (µsec)	OXYGEN (ml/l)	(ml/l)
0.897	30.00	0.00	29.06	0.900	0.004
0.932	26.00	0.00	29.73	0.936	0.004
0.969	20.00	0.00	30.94	0.972	0.003
1.040	12.00	0.00	32.55	1.040	-0.000
1.141	6.00	0.00	33.61	1.138	-0.003
1.228	2.00	0.00	34.30	1.222	-0.006
2.408	30.00	0.00	21.52	2.408	0.000
2.550	26.00	0.00	22.07	2.550	-0.000
2.688	20.00	0.00	23.27	2.690	0.002
3.196	12.00	0.00	24.27	3.198	0.002
3.615	6.00	0.00	25.27	3.620	0.005
3.892	30.00	0.00	17.78	3.889	-0.003
3.965	2.00	0.00	25.95	3.970	0.005
4.133	26.00	0.00	18.26	4.129	-0.004
4.571	20.00	0.00	19.00	4.567	-0.004
5.321	12.00	0.00	20.09	5.318	-0.003
5.591	30.00	0.00	15.19	5.594	0.003
5.931	26.00	0.00	15.62	5.934	0.003
6.090	6.00	0.00	20.93	6.089	-0.001
6.540	20.00	0.00	16.31	6.539	-0.002
6.694	2.00	0.00	21.57	6.694	0.000
7.621	12.00	0.00	17.28	7.622	0.001
8.710	6.00	0.00	18.06	8.712	0.002
9.183	2.00	0.00	18.98	9.180	-0.003

 $T = temperature (^{\circ}C)$ , P = pressure (dbar), U = Instrument output (µsec)

 $S_{corr}$  (salinity correction function) = 1.0 for calibration in DI water

See the user manual for more information on  $\boldsymbol{S}_{\text{corr}}$  calculation

V = U / 39.457071

 $Oxygen \; (ml/l) = \{((A0 + A1*T + A2*V^2)/(B0 + B1*V) - 1.0)/(C0 + C1*T + C2*T^2)\} * S_{corr} * exp(E*P/T + 273.15) + (A1*T + A2*V^2)/(B0 + B1*V) - (A1*T + A2*V^2)/(B0 + B1*V^2) - (A1*T + A2*V^2)/(B0 + A2*V^2)/(B0 + A2*V^2) - (A1*T + A2*V^2)/(B0 + A2*V^2)/(B0 + A2*$ 

Residual (ml/l) = instrument oxygen - bath oxygen

Date, Slope Correction

• 01-Jul-15 1.0000

