

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: 3318
CALIBRATION DATE: 07-Dec-16

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.018371e+000
h = 1.392052e-001
i = -1.907550e-004
j = 3.707485e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -5.6324e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2707.29	0.00000	0.00000
1.0000	34.7682	2.97225	5353.41	2.97227	0.00002
4.5000	34.7490	3.27900	5554.55	3.27897	-0.00003
15.0000	34.7070	4.25962	6152.83	4.25962	-0.00000
18.5000	34.6983	4.60440	6349.49	4.60440	0.00000
24.0000	34.6889	5.16177	6654.80	5.16177	0.00001
29.0000	34.6840	5.68308	6927.83	5.68309	0.00001
32.5000	34.6814	6.05512	7116.05	6.05511	-0.00001

$f = \text{Instrument Output(Hz)} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

