

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: 13247

CALIBRATION DATE: 09-Dec-16

SBE 37 V2 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.734157e-001

h = 1.498382e-001

i = -1.529728e-004

j = 3.398161e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 3.9209e-007

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	2550.24	0.00000	0.00000
1.0000	34.7193	2.96846	5127.23	2.96846	-0.00000
4.5000	34.6996	3.27480	5322.05	3.27480	-0.00000
15.0000	34.6578	4.25422	5901.23	4.25423	0.00000
18.5000	34.6489	4.59855	6091.52	4.59855	-0.00000
24.0000	34.6393	5.15520	6386.90	5.15521	0.00001
28.9999	34.6340	5.67580	6650.98	5.67579	-0.00001
32.5000	34.6307	6.04728	6833.02	6.04728	0.00001

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

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

