

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: 9309
CALIBRATION DATE: 01-Nov-13

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

COEFFICIENTS:

g = -9.888870e-001
h = 1.358498e-001
i = -2.853436e-004
j = 3.573670e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 9.2605e-008

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2703.09	0.00000	0.00000
1.0000	34.8239	2.97655	5412.69	2.97655	-0.00000
4.5000	34.8035	3.28364	5617.93	3.28364	0.00001
15.0000	34.7595	4.26538	6228.17	4.26537	-0.00001
18.5000	34.7493	4.61044	6428.67	4.61044	0.00000
24.0000	34.7380	5.16826	6739.91	5.16827	0.00000
29.0000	34.7314	5.68998	7018.21	5.68997	-0.00000
32.5000	34.7273	6.06222	7210.04	6.06222	0.00000

$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

$$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p) \text{ Siemens/meter}$$

$$t = \text{temperature}[^{\circ}\text{C}]; p = \text{pressure}[\text{decibars}]; \delta = \text{CTcor}; \epsilon = \text{CPcor};$$

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

Date, Slope Correction

