

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2327
CALIBRATION DATE: 05-Feb-14

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

COEFFICIENTS:

g = -9.247503e-001
h = 1.280793e-001
i = -1.289410e-004
j = 3.117317e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 4.0610e-006

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	2688.18	0.00000	0.00000
1.0000	34.7364	2.96979	5509.19	2.96978	-0.00001
4.5000	34.7166	3.27624	5720.81	3.27626	0.00002
15.0000	34.6741	4.25601	6349.08	4.25600	-0.00001
18.5000	34.6649	4.60045	6555.29	4.60044	-0.00001
24.0000	34.6546	5.15723	6875.17	5.15723	0.00001
29.0000	34.6484	5.67791	7160.94	5.67792	0.00001
32.4999	34.6446	6.04942	7357.80	6.04941	-0.00001

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

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

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

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

