

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9016
CALIBRATION DATE: 18-Jan-13

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

COEFFICIENTS:

g = -1.023191e+000
h = 1.686677e-001
i = -4.340380e-004
j = 6.120887e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 5.0648e-007

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	2468.09	0.00000	0.00000
1.0000	34.8852	2.98129	4882.12	2.98128	-0.00001
4.5000	34.8646	3.28883	5065.67	3.28884	0.00001
15.0000	34.8210	4.27213	5611.68	4.27215	0.00002
18.5000	34.8117	4.61782	5791.16	4.61783	0.00001
24.0000	34.8014	5.17665	6069.80	5.17664	-0.00002
29.0000	34.7954	5.69928	6318.98	5.69927	-0.00002
32.5000	34.7917	6.07219	6490.76	6.07220	0.00002

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

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

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

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

