

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0385
CALIBRATION DATE: 10-Dec-13

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

COEFFICIENTS:

g = -1.084387e+000
h = 1.557170e-001
i = -4.057664e-004
j = 5.355221e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.8271e-005

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	2647.13	0.00000	0.00000
1.0000	34.7010	2.96705	5112.07	2.96704	-0.00000
4.5000	34.6812	3.27323	5301.99	3.27324	0.00001
15.0000	34.6388	4.25214	5867.80	4.25212	-0.00002
18.5000	34.6296	4.59627	6054.08	4.59628	0.00002
24.0000	34.6192	5.15254	6343.47	5.15253	-0.00000
29.0000	34.6131	5.67277	6602.51	5.67278	0.00001
32.5000	34.6091	6.04393	6781.18	6.04393	-0.00000

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

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

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

