

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1865
CALIBRATION DATE: 05-Feb-14

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

COEFFICIENTS:

g = -9.764966e-001

CPcor = -9.5700e-008

h = 1.347214e-001

CTcor = 3.2500e-006

i = -1.378644e-004

WBOTC = 2.0729e-006

j = 3.295146e-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	2693.52	0.00000	0.00000
1.0000	34.7364	2.96979	5407.86	2.96980	0.00002
4.5000	34.7166	3.27624	5612.94	3.27623	-0.00001
15.0000	34.6741	4.25601	6222.50	4.25599	-0.00003
18.5000	34.6649	4.60045	6422.73	4.60044	-0.00000
24.0000	34.6546	5.15723	6733.47	5.15727	0.00005
29.0000	34.6484	5.67791	7011.15	5.67788	-0.00002

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

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

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

Residual = instrument conductivity - bath conductivity

