

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0812
CALIBRATION DATE: 04-Jun-08

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

COEFFICIENTS:

g = -1.098670e+000
h = 1.547960e-001
i = -4.430976e-004
j = 5.978535e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.0013e-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	2673.01	0.00000	0.00000
0.9999	34.6703	2.96466	5135.27	2.96469	0.00003
4.4999	34.6508	3.27064	5325.25	3.27062	-0.00002
14.9999	34.6087	4.24882	5891.38	4.24880	-0.00003
18.4999	34.5995	4.59269	6077.75	4.59268	-0.00001
23.9999	34.5892	5.14855	6367.32	5.14857	0.00002
29.0000	34.5828	5.66836	6626.48	5.66841	0.00005
32.5000	34.5792	6.03930	6805.22	6.03927	-0.00004

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

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

