

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 29-Oct-13

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

COEFFICIENTS:

g = -1.044249e+000
h = 1.264233e-001
i = -2.787442e-004
j = 3.558789e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.4820e-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	2879.53	0.00000	0.00000
1.0000	34.7748	2.97276	5646.68	2.97277	0.00001
4.5000	34.7548	3.27949	5857.58	3.27948	-0.00001
15.0000	34.7117	4.26014	6485.14	4.26013	-0.00001
18.5000	34.7027	4.60492	6691.48	4.60492	0.00000
24.0000	34.6929	5.16230	7011.86	5.16230	0.00001
29.0000	34.6877	5.68362	7298.39	5.68363	0.00000
32.5000	34.6849	6.05566	7495.94	6.05566	-0.00001

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

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

