

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0815
CALIBRATION DATE: 14-Apr-12

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

COEFFICIENTS:

g = -1.076593e+000

CPcor = -9.5700e-008

h = 1.524162e-001

CTcor = 3.2500e-006

i = -3.911854e-004

WBOTC = -7.7510e-005

j = 5.441418e-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	2665.74	0.00000	0.00000
1.0000	34.8466	2.97831	5167.76	2.97829	-0.00002
4.5000	34.8260	3.28555	5360.13	3.28557	0.00002
15.0000	34.7817	4.26782	5933.01	4.26781	-0.00000
18.4999	34.7722	4.61314	6121.55	4.61314	-0.00000
24.0000	34.7619	5.17143	6414.49	5.17143	-0.00000
29.0000	34.7559	5.69354	6676.64	5.69354	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

