

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0804
CALIBRATION DATE: 16-Aug-13

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

COEFFICIENTS:

g = -1.062849e+000

CPcor = -9.5700e-008

h = 1.518873e-001

CTcor = 3.2500e-006

i = -4.160067e-004

WBOTC = -7.8600e-005

j = 5.471765e-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	2653.87	0.00000	0.00000
1.0000	34.8473	2.97836	5170.09	2.97835	-0.00001
4.5000	34.8275	3.28568	5363.30	3.28569	0.00001
15.0000	34.7849	4.26817	5938.61	4.26817	0.00000
18.5000	34.7758	4.61358	6127.91	4.61355	-0.00002
24.0000	34.7660	5.17197	6422.03	5.17199	0.00002
29.0000	34.7608	5.69425	6685.22	5.69424	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity

