

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 30-Oct-13

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

COEFFICIENTS:

g = -1.031167e+000
h = 1.508142e-001
i = -6.215694e-005
j = 3.069842e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.8251e-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	2615.23	0.00000	0.00000
1.0000	34.6908	2.96626	5140.07	2.96626	-0.00000
4.4999	34.6708	3.27234	5332.64	3.27235	0.00001
15.0000	34.6279	4.25094	5905.71	4.25092	-0.00002
18.5000	34.6190	4.59501	6094.20	4.59500	-0.00001
24.0000	34.6093	5.15123	6386.94	5.15126	0.00003
29.0000	34.6046	5.67153	6648.83	5.67152	-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

