

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1865
CALIBRATION DATE: 15-Jan-12

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

COEFFICIENTS:

g = -9.752332e-001

CPcor = -9.5700e-008

h = 1.344175e-001

CTcor = 3.2500e-006

i = -7.675381e-005

WBOTC = 2.0729e-006

j = 2.930946e-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	2693.44	0.00000	0.00000
1.0000	34.9333	2.98501	5418.97	2.98503	0.00002
4.5000	34.9128	3.29293	5624.61	3.29291	-0.00002
15.0000	34.8683	4.27732	6235.81	4.27729	-0.00003
18.4999	34.8589	4.62340	6436.59	4.62343	0.00003
24.0000	34.8481	5.18283	6748.12	5.18284	0.00001
29.0000	34.8417	5.70601	7026.57	5.70600	-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

