

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9016

CALIBRATION DATE: 25-Sep-14

SBE 37 V2 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.033239e+000

h = 1.704890e-001

i = -8.534195e-004

j = 8.845481e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 5.0648e-007

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	2473.20	0.00000	0.00000
1.0000	34.7543	2.97117	4875.94	2.97116	-0.00001
4.5000	34.7353	3.27783	5059.16	3.27784	0.00001
15.0000	34.6932	4.25811	5604.16	4.25812	0.00001
18.5000	34.6843	4.60274	5783.33	4.60274	-0.00000
23.9999	34.6749	5.15990	6061.52	5.15989	-0.00001
29.0000	34.6700	5.68105	6310.33	5.68105	0.00001
32.5000	34.6673	6.05294	6481.88	6.05302	0.00008

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

Conductivity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$ Siemens / meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

