

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9309
CALIBRATION DATE: 16-Oct-15

SBE 37 V2 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.855870e-001
h = 1.352576e-001
i = -6.088403e-005
j = 2.163659e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 9.2605e-008

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	2699.46	0.00000	0.00000
0.9999	34.6531	2.96333	5397.27	2.96332	-0.00002
4.4999	34.6323	3.26906	5601.61	3.26908	0.00002
14.9999	34.5879	4.24654	6209.19	4.24652	-0.00001
18.4999	34.5777	4.59011	6408.86	4.59012	0.00001
24.0000	34.5661	5.14551	6718.81	5.14550	-0.00000
29.0000	34.5591	5.66491	6995.99	5.66491	-0.00000
32.5000	34.5547	6.03551	7187.07	6.03551	0.00000

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

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

