

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 01-Dec-16

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

COEFFICIENTS:

g = -1.022198e+000
h = 1.423855e-001
i = -2.864290e-004
j = 4.113048e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 7.1795e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2683.63	0.00000	0.00000
1.0000	34.7116	2.96787	5300.41	2.96786	-0.00001
4.5000	34.6918	3.27413	5499.43	3.27414	0.00001
15.0000	34.6505	4.25342	6091.48	4.25343	0.00001
18.5000	34.6419	4.59772	6286.10	4.59772	-0.00000
24.0000	34.6325	5.15430	6588.25	5.15429	-0.00001
28.9999	34.6277	5.67488	6858.47	5.67488	-0.00000
32.5000	34.6253	6.04644	7044.79	6.04644	0.00000

$f = \text{Instrument Output(Hz)} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

