

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0811
CALIBRATION DATE: 08-Dec-16

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

COEFFICIENTS:

g = -1.081105e+000
h = 1.504176e-001
i = -3.629164e-004
j = 4.970961e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.3368e-005

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	2688.60	0.00000	0.00000
1.0000	34.6510	2.96318	5194.87	2.96318	0.00000
4.5000	34.6318	3.26903	5387.87	3.26903	-0.00000
15.0000	34.5902	4.24680	5962.80	4.24679	-0.00002
18.5000	34.5815	4.59057	6152.07	4.59057	0.00001
24.0000	34.5722	5.14631	6446.14	5.14632	0.00001
29.0000	34.5674	5.66612	6709.36	5.66612	0.00000
32.5000	34.5650	6.03710	6890.97	6.03710	-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

