

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0812
CALIBRATION DATE: 08-Dec-16

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

COEFFICIENTS:

g = -1.097735e+000
h = 1.544949e-001
i = -3.622393e-004
j = 5.266169e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.0013e-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	2673.05	0.00000	0.00000
1.0000	34.6510	2.96318	5134.95	2.96317	-0.00001
4.5000	34.6318	3.26903	5324.97	3.26903	0.00001
15.0000	34.5902	4.24680	5891.14	4.24680	-0.00000
18.5000	34.5815	4.59057	6077.56	4.59058	0.00001
24.0000	34.5722	5.14631	6367.24	5.14631	-0.00000
29.0000	34.5674	5.66612	6626.57	5.66611	-0.00001
32.5000	34.5650	6.03710	6805.52	6.03711	0.00001

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

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

