

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 08-Dec-16

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

COEFFICIENTS:

g = -1.092097e+000
h = 1.390759e-001
i = -4.270201e-005
j = 2.339806e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -1.3113e-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	2801.99	0.00000	0.00000
1.0000	34.6510	2.96318	5391.22	2.96319	0.00001
4.5000	34.6318	3.26903	5590.11	3.26901	-0.00001
15.0000	34.5902	4.24680	6182.57	4.24679	-0.00001
18.5000	34.5815	4.59057	6377.58	4.59058	0.00001
24.0000	34.5722	5.14631	6680.55	5.14632	0.00001
29.0000	34.5674	5.66612	6951.72	5.66612	-0.00001
32.5000	34.5650	6.03710	7138.81	6.03711	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

