

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0815
CALIBRATION DATE: 08-Dec-16

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

COEFFICIENTS:

g = -1.076369e+000
h = 1.523713e-001
i = -3.846545e-004
j = 5.445863e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.7510e-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	2665.70	0.00000	0.00000
1.0000	34.6510	2.96318	5158.18	2.96318	0.00001
4.5000	34.6318	3.26903	5350.00	3.26902	-0.00001
15.0000	34.5902	4.24680	5921.35	4.24679	-0.00001
18.5000	34.5815	4.59057	6109.42	4.59059	0.00002
24.0000	34.5722	5.14631	6401.58	5.14631	-0.00000
29.0000	34.5674	5.66612	6663.08	5.66612	-0.00000
32.5000	34.5650	6.03710	6843.49	6.03711	0.00000

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

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

