

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2328
CALIBRATION DATE: 20-Nov-15

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

COEFFICIENTS:

g = -1.050365e+000
h = 1.587740e-001
i = -1.816419e-004
j = 4.092008e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 6.5429e-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	2573.46	0.00000	0.00000
1.0000	34.6081	2.95986	5023.77	2.95987	0.00001
4.5000	34.5879	3.26529	5210.80	3.26528	-0.00001
15.0000	34.5450	4.24184	5767.49	4.24183	-0.00001
18.5000	34.5360	4.58518	5950.59	4.58519	0.00001
24.0000	34.5264	5.14025	6234.92	5.14025	0.00000
29.0000	34.5214	5.65943	6489.29	5.65942	-0.00000
32.5000	34.5189	6.02997	6664.71	6.02997	-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

