

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1374
CALIBRATION DATE: 30-Mar-16

SBE 4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -4.08331261e+000
h = 4.98513711e-001
i = -1.13576107e-004
j = 3.39112282e-005

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.86212	0.00000	0.00000
-1.0000	34.7028	2.79628	8.00750	2.79626	-0.00003
1.0000	34.7031	2.96721	8.21762	2.96725	0.00004
15.0000	34.7031	4.25919	9.65639	4.25915	-0.00004
18.5000	34.7025	4.60490	10.00580	4.60493	0.00003
29.0001	34.7016	5.68565	11.02517	5.68567	0.00001
32.5001	34.6922	6.05680	11.35359	6.05679	-0.00001

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = 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

