

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1568
CALIBRATION DATE: 03-Jul-14

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

COEFFICIENTS:

g = -4.00502099e+000
h = 5.19035264e-001
i = -1.54791488e-004
j = 3.19509794e-005

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

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.77831	0.00000	0.00000
-1.0000	34.7200	2.79754	7.84383	2.79753	-0.00001
1.0000	34.7203	2.96854	8.05029	2.96855	0.00001
15.0000	34.7213	4.26119	9.46451	4.26116	-0.00003
18.5000	34.7207	4.60705	9.80795	4.60708	0.00003
29.0000	34.7197	5.68827	10.80999	5.68827	-0.00001
32.5000	34.7116	6.05979	11.13309	6.05980	0.00000

f = INST FREQ / 1000.0

Conductivity = (g + h * f² + i * f³ + j * f⁴) / (1 + δ * t + ε * p) Siemens / meter

t = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity

