

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1568
CALIBRATION DATE: 10-Feb-15

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

COEFFICIENTS:

g = -4.00646986e+000
h = 5.19319007e-001
i = -1.97516056e-004
j = 3.36468991e-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	2.77833	0.00000	0.00000
-1.0000	34.7158	2.79723	7.84325	2.79724	0.00001
1.0000	34.7166	2.96825	8.04972	2.96825	0.00000
15.0000	34.7175	4.26077	9.46397	4.26076	-0.00001
18.5000	34.7175	4.60667	9.80741	4.60666	-0.00002
29.0000	34.7157	5.68769	10.80945	5.68775	0.00006
32.5001	34.7089	6.05939	11.13263	6.05935	-0.00004

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

