

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 09-Jul-15

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

COEFFICIENTS:

g = -4.06236055e+000
h = 5.35028065e-001
i = 3.47215618e-005
j = 2.98384785e-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	2.75467	0.00000	0.00000
-1.0000	34.3112	2.76765	7.68748	2.76765	-0.00000
1.0000	34.3117	2.93691	7.88910	2.93692	0.00001
15.0000	34.3124	4.21628	9.27024	4.21625	-0.00003
18.5000	34.3119	4.55861	9.60568	4.55862	0.00001
29.0000	34.3099	5.62863	10.58438	5.62867	0.00004
32.5000	34.3031	5.99653	10.90008	5.99650	-0.00003

f = INST FREQ / 1000.0

Conductivity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$ Siemens / meter

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

Residual = instrument conductivity - bath conductivity

