

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1335

CALIBRATION DATE: 03-Sep-15

SBE 4 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -3.97258921e+000

h = 5.02173515e-001

i = -6.15876600e-005

j = 3.18351129e-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	2.81239	0.00000	0.00000
-1.0001	34.7165	2.79728	7.96374	2.79729	0.00001
0.9999	34.7170	2.96828	8.17335	2.96828	0.00001
15.0000	34.7190	4.26094	9.60896	4.26088	-0.00006
18.4999	34.7186	4.60680	9.95750	4.60682	0.00003
29.0000	34.7164	5.68780	10.97400	5.68785	0.00005
32.4999	34.7060	6.05892	11.30131	6.05888	-0.00004

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

