

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2170
CALIBRATION DATE: 11-Feb-15

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

COEFFICIENTS:

g = -1.03700728e+001
h = 1.45064743e+000
i = -2.49928107e-003
j = 2.45652526e-004

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	2.67824	0.00000	0.00000
-1.0000	34.6419	2.79183	5.14879	2.79183	-0.00001
0.9999	34.6423	2.96250	5.26230	2.96250	0.00000
15.0000	34.6422	4.25251	6.05139	4.25252	0.00001
18.5000	34.6420	4.59774	6.24555	4.59773	-0.00000
29.0001	34.6411	5.67685	6.81656	5.67684	-0.00002
32.5000	34.6349	6.04793	7.00205	6.04794	0.00001

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

