

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0304  
CALIBRATION DATE: 05-Feb-14

SBE4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -4.08156681e+000  
h = 4.33728011e-001  
i = -7.79042716e-004  
j = 5.75615454e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.68393319e-007  
b = 4.30481589e-001  
c = -4.06737866e+000  
d = -6.30990305e-005  
m = 5.6  
CPcor = -9.5700e-008 (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	3.07421	0.00000	0.00000
-1.0000	34.7297	2.79825	8.62236	2.79828	0.00003
1.0000	34.7299	2.96928	8.84875	2.96926	-0.00003
15.0000	34.7289	4.26202	10.39938	4.26199	-0.00004
18.5000	34.7283	4.60795	10.77571	4.60797	0.00002
29.0001	34.7262	5.68923	11.87280	5.68928	0.00005
32.5000	34.7170	6.06063	12.22600	6.06060	-0.00003

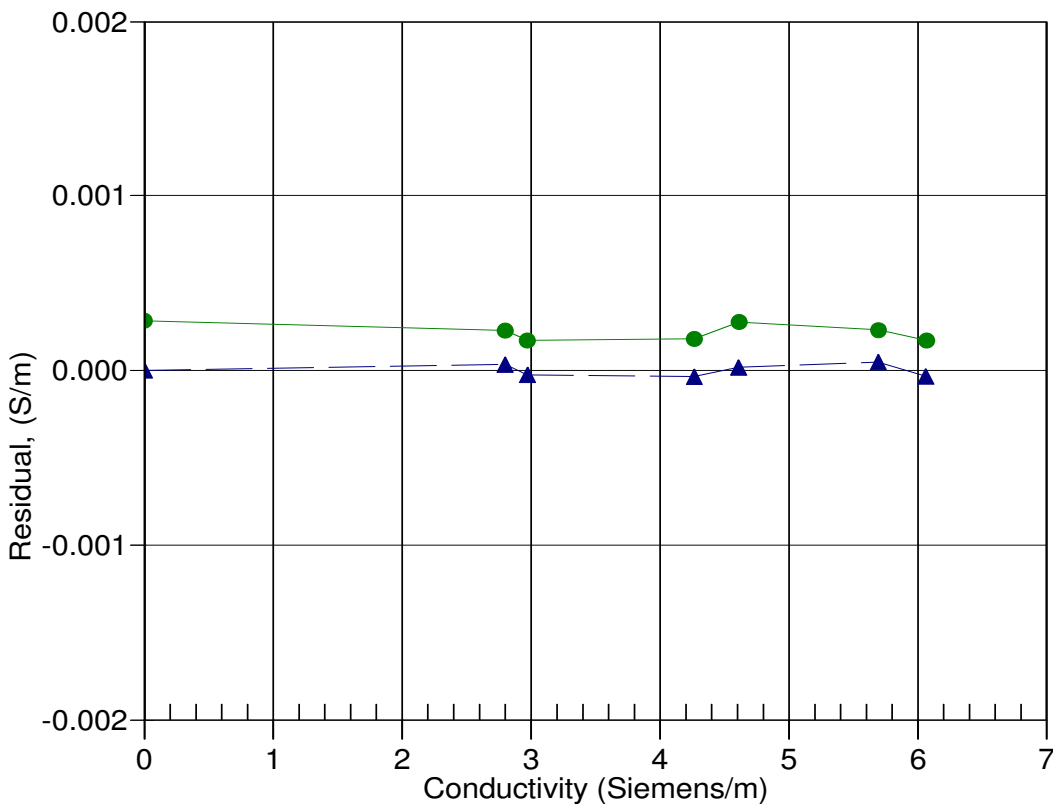
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



12-Dec-12 0.9999558  
05-Feb-14 1.0000000