

# Sea-Bird GmbH

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SENSOR SERIAL NUMBER: 3677  
CALIBRATION DATE: 14-Jan-14

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

## GHIJ COEFFICIENTS

g = -9.92222947e+000  
h = 1.40077068e+000  
i = -3.12188777e-003  
j = 3.06421593e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 5.71899172e-008  
b = 1.39170764e+000  
c = -9.90119108e+000  
d = -7.77692247e-005  
m = 7.3  
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	2.66732	0.00000	0.00000
-0.9977	34.8392	2.80644	5.22238	2.80647	0.00002
1.0000	34.8394	2.97775	5.33881	2.97775	0.00000
15.0000	34.8397	4.27418	6.14840	4.27411	-0.00007
18.5000	34.8379	4.62092	6.34735	4.62094	0.00001
29.0000	34.8319	5.70459	6.93181	5.70471	0.00012
32.5000	34.8205	6.07664	7.12112	6.07656	-0.00008

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

