

Sea-Bird GmbH

Postfach 1167, 87401 Kempten, Germany

Phone: +49 831 960994 701 Fax: +49 831 960994 709 Email: seabird.eu@seabird.com

SENSOR SERIAL NUMBER: 3678
CALIBRATION DATE: 03-Apr-13

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

GHIJ COEFFICIENTS

g = -9.79504969e+000
h = 1.54629387e+000
i = -1.46376145e-003
j = 2.11409489e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.49567328e-006
b = 1.54291721e+000
c = -9.78931096e+000
d = -8.57298609e-005
m = 5.2
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	2.51876	0.00000	0.00000
-1.0000	34.7930	2.80287	4.94912	2.80290	0.00002
1.0000	34.7940	2.97424	5.05985	2.97421	-0.00003
15.0000	34.7927	4.26902	5.82871	4.26905	0.00003
18.5000	34.7915	4.61543	6.01760	4.61541	-0.00002
28.9999	34.7822	5.69735	6.57243	5.69735	-0.00000
32.5000	34.7620	6.06759	6.75171	6.06760	0.00000

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]; δ = CTcor; ϵ = CPcor;

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

Date, Slope Correction

