

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0670
CALIBRATION DATE: 23-Jul-13

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

GHIJ COEFFICIENTS

g = -4.30951358e+000
h = 4.57214731e-001
i = 3.95616023e-004
j = 3.12142135e-006
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.24926770e-004
b = 4.57389230e-001
c = -4.31000817e+000
d = -8.57713677e-005
m = 3.1
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	3.06595	0.00000	0.00000
-1.0000	34.9131	2.81165	8.38903	2.81165	0.00000
1.0001	34.9136	2.98350	8.60758	2.98350	0.00001
15.0001	34.9145	4.28239	10.10582	4.28235	-0.00004
18.5000	34.9145	4.62999	10.47005	4.63000	0.00002
29.0001	34.9139	5.71651	11.53340	5.71656	0.00005
32.5000	34.9079	6.09015	11.87664	6.09012	-0.00004

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

