

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: 1911
CALIBRATION DATE: 03-Mar-15

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

COEFFICIENTS:

g = -3.92988732e+000
h = 5.03868892e-001
i = -6.93019837e-004
j = 6.09425082e-005

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	2.79680	0.00000	0.00000
-1.0000	34.7041	2.79638	7.96906	2.79639	0.00001
1.0000	34.7044	2.96731	8.17931	2.96729	-0.00002
15.0000	34.7031	4.25919	9.61885	4.25920	0.00001
18.5000	34.7031	4.60497	9.96821	4.60496	-0.00001
29.0001	34.7010	5.68557	10.98694	5.68571	0.00014
32.5001	34.6938	6.05705	11.31516	6.05705	0.00000

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

