

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: 1335
CALIBRATION DATE: 03-Jun-14

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

COEFFICIENTS:

g = -3.96831070e+000
h = 5.01012477e-001
i = 1.62877233e-004
j = 2.02600929e-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	2.81262	0.00000	0.00000
-1.0000	34.6983	2.79596	7.96243	2.79598	0.00003
1.0000	34.6992	2.96691	8.17196	2.96689	-0.00002
15.0000	34.7005	4.25891	9.60711	4.25884	-0.00007
18.5000	34.6998	4.60458	9.95566	4.60466	0.00008
29.0000	34.6985	5.68519	10.97222	5.68518	-0.00002
32.5000	34.6923	6.05681	11.30028	6.05681	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

