

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: 1070
CALIBRATION DATE: 03-Jul-14

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

COEFFICIENTS:

g = -4.10419838e+000
h = 5.93548188e-001
i = -8.08713915e-005
j = 3.71276378e-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	2.62948	0.00000	0.00000
-1.0000	34.7200	2.79754	7.34296	2.79754	-0.00000
1.0000	34.7203	2.96854	7.53559	2.96855	0.00001
15.0000	34.7213	4.26119	8.85546	4.26114	-0.00005
18.5000	34.7207	4.60705	9.17609	4.60709	0.00004
29.0000	34.7197	5.68827	10.11168	5.68829	0.00002
32.5000	34.7116	6.05979	10.41335	6.05978	-0.00001

f = INST FREQ / 1000.0

Conductivity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$ Siemens / meter

t = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

