

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: 0277
CALIBRATION DATE: 09-Jan-13

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.807338e-001

CPcor = -9.5700e-008

h = 1.476699e-001

CTcor = 3.2500e-006

i = -2.997409e-004

j = 4.635034e-005

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2581.16	0.0000	0.00000
1.0000	34.9620	2.98723	5189.07	2.9872	-0.00002
4.5000	34.9410	3.29533	5386.13	3.2954	0.00003
15.0000	34.8965	4.28041	5971.78	4.2804	-0.00000
18.5000	34.8868	4.62671	6164.16	4.6267	-0.00001
24.0000	34.8756	5.18647	6462.70	5.1865	0.00000
29.0000	34.8685	5.70990	6729.53	5.7099	-0.00000
32.5000	34.8643	6.08341	6913.43	6.0834	0.00000

f = INST FREQ / 1000.0

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

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

Residual = instrument conductivity - bath conductivity

