

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: 1679
CALIBRATION DATE: 06-Feb-14

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.829664e-001
h = 1.428542e-001
i = -1.421964e-004
j = 3.589729e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.8739e-006

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	2624.53	0.00000	0.00000
1.0000	34.6850	2.96581	5253.11	2.96581	-0.00000
4.5000	34.6651	3.27186	5452.08	3.27187	0.00001
15.0000	34.6223	4.25033	6043.51	4.25031	-0.00001
18.5000	34.6129	4.59429	6237.83	4.59430	0.00001
24.0000	34.6024	5.15031	6539.39	5.15031	-0.00000
29.0000	34.5961	5.67030	6808.99	5.67030	0.00000

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

t = temperature[°C]; p = pressure[decibars]; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

Residual = instrument conductivity - bath conductivity

