

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: 0824
CALIBRATION DATE: 14-Apr-12

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

COEFFICIENTS:

g = -1.040291e+000

CPcor = -9.5700e-008

h = 1.533750e-001

CTcor = 3.2500e-006

i = -4.561891e-005

WBOTC = -2.8124e-005

j = 3.275815e-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	2604.28	0.00000	0.00000
1.0000	34.8466	2.97831	5108.43	2.97830	-0.00001
4.5000	34.8260	3.28555	5299.45	3.28557	0.00002
15.0000	34.7817	4.26782	5867.84	4.26780	-0.00001
18.4999	34.7722	4.61314	6054.78	4.61315	0.00001
24.0000	34.7619	5.17143	6345.09	5.17142	-0.00000
29.0000	34.7559	5.69354	6604.79	5.69354	0.00000

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

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

