

SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 2333
CALIBRATION DATE: 23-Aug-11

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

COEFFICIENTS:

g = -9.844297e-001

CPcor = -9.5700e-008

h = 1.538358e-001

CTcor = 3.2500e-006

i = -2.654930e-004

WBOTC = 9.2476e-006

j = 5.054568e-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	2532.28	0.00000	0.00000
1.0000	35.0117	2.99107	5084.26	2.99108	0.00001
4.4999	34.9912	3.29958	5276.93	3.29959	0.00000
15.0000	34.9477	4.28602	5849.56	4.28598	-0.00004
18.5000	34.9385	4.63283	6037.65	4.63280	-0.00002
23.9999	34.9282	5.19342	6329.52	5.19346	0.00004
29.0000	34.9220	5.71768	6590.36	5.71772	0.00004
32.4999	34.9181	6.09172	6770.03	6.09168	-0.00004

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

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

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

Residual = instrument conductivity - bath conductivity

