

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 3937
CALIBRATION DATE: 17-Nov-06

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

COEFFICIENTS:

g = -1.018275e+000
h = 1.433879e-001
i = -1.450373e-004
j = 3.398514e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.0028e-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	2665.99	0.00000	0.00000
1.0000	34.7250	2.96890	5269.92	2.96891	0.00000
4.5001	34.7052	3.27528	5467.76	3.27528	-0.00000
15.0000	34.6627	4.25476	6056.19	4.25476	-0.00000
18.5000	34.6538	4.59913	6249.61	4.59912	-0.00001
24.0000	34.6440	5.15582	6549.91	5.15584	0.00002
29.0000	34.6383	5.67644	6818.40	5.67643	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity

