

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: 3424
CALIBRATION DATE: 31-Oct-08

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

COEFFICIENTS:

g = -9.977069e-001
h = 1.361234e-001
i = -1.688725e-004
j = 3.444285e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.3041e-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	2709.52	0.00000	0.00000
0.9999	34.8955	2.98208	5405.27	2.98210	0.00002
4.5000	34.8755	3.28976	5609.50	3.28974	-0.00001
15.0000	34.8322	4.27336	6216.74	4.27334	-0.00002
18.5000	34.8227	4.61913	6416.27	4.61913	0.00000
24.0000	34.8122	5.17808	6725.98	5.17811	0.00003
29.0000	34.8059	5.70081	7002.83	5.70080	-0.00001
32.5000	34.8012	6.07365	7193.60	6.07365	-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

