

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: 0826
 CALIBRATION DATE: 06-Nov-08

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

COEFFICIENTS:

g = -1.059041e+000	CPcor = -9.5700e-008
h = 1.564698e-001	CTcor = 3.2500e-006
i = -1.656678e-004	WBOTC = -2.7407e-005
j = 3.912465e-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	2603.77	0.00000	0.00000
1.0000	34.7449	2.97044	5072.08	2.97046	0.00001
4.4999	34.7249	3.27694	5260.95	3.27693	-0.00001
15.0000	34.6812	4.25679	5823.26	4.25678	-0.00001
18.4999	34.6722	4.60130	6008.27	4.60130	-0.00000
23.9999	34.6621	5.15821	6295.62	5.15822	0.00001
28.9999	34.6563	5.67904	6552.72	5.67907	0.00002
32.5001	34.6539	6.05088	6730.09	6.05086	-0.00002

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

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

