

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: 2325
CALIBRATION DATE: 11-Feb-14

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

COEFFICIENTS:

g = -9.824897e-001
h = 1.388855e-001
i = -1.191025e-004
j = 3.181027e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -5.9812e-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	2660.77	0.00000	0.00000
1.0000	34.7036	2.96725	5327.68	2.96725	0.00000
4.5000	34.6838	3.27345	5529.52	3.27345	0.00000
15.0000	34.6420	4.25249	6129.58	4.25248	-0.00001
18.5000	34.6333	4.59670	6326.75	4.59670	-0.00001
24.0000	34.6238	5.15315	6632.80	5.15317	0.00002
29.0001	34.6189	5.67363	6906.43	5.67362	-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

