

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: 3424
CALIBRATION DATE: 23-Nov-16

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

COEFFICIENTS:

g = -9.993754e-001
h = 1.364509e-001
i = -2.540779e-004
j = 3.898513e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.3041e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2710.49	0.00000	0.00000
1.0000	34.7552	2.97124	5399.04	2.97123	-0.00001
4.4999	34.7348	3.27778	5602.95	3.27780	0.00002
15.0000	34.6930	4.25809	6209.37	4.25808	-0.00001
18.5000	34.6843	4.60274	6408.66	4.60274	-0.00001
24.0000	34.6747	5.15989	6718.00	5.15990	0.00001
29.0000	34.6696	5.68099	6994.59	5.68098	-0.00001
32.5000	34.6663	6.05278	7185.16	6.05267	-0.00012

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

