

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: 3423
CALIBRATION DATE: 23-Nov-16

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

COEFFICIENTS:

g = -9.948242e-001
h = 1.341789e-001
i = -1.652882e-004
j = 3.268168e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.1543e-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	2725.22	0.00000	0.00000
1.0000	34.7552	2.97124	5435.39	2.97123	-0.00001
4.4999	34.7348	3.27778	5640.80	3.27780	0.00002
15.0000	34.6930	4.25809	6251.65	4.25807	-0.00001
18.5000	34.6843	4.60274	6452.40	4.60274	-0.00000
24.0000	34.6747	5.15989	6764.01	5.15989	0.00001
29.0000	34.6696	5.68099	7042.63	5.68100	0.00001
32.5000	34.6663	6.05278	7234.65	6.05278	-0.00001

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

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

