

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: 4254
CALIBRATION DATE: 01-Dec-16

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

COEFFICIENTS:

g = -1.022157e+000
h = 1.517892e-001
i = -1.961270e-004
j = 4.105059e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.9558e-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	2596.74	0.00000	0.00000
1.0000	34.7116	2.96787	5125.80	2.96787	0.00000
4.5000	34.6918	3.27413	5318.03	3.27413	-0.00000
15.0000	34.6505	4.25342	5889.93	4.25344	0.00002
18.5000	34.6419	4.59772	6077.89	4.59770	-0.00003
24.0000	34.6325	5.15430	6369.75	5.15432	0.00002
28.9999	34.6277	5.67488	6630.72	5.67488	-0.00001
32.5000	34.6253	6.04644	6810.65	6.04637	-0.00007

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

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

