

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: 4367
CALIBRATION DATE: 29-Oct-14

SBE 4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.90546331e+000
h = 1.40581354e+000
i = -1.00247251e-003
j = 1.39063488e-004

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.65603	0.00000	0.00000
-1.0000	34.4083	2.77475	5.17799	2.77474	-0.00001
0.9999	34.4124	2.94470	5.29347	2.94470	0.00001
14.9999	34.4249	4.22864	6.09527	4.22866	0.00002
18.4999	34.4297	4.57257	6.29258	4.57255	-0.00002
28.9999	34.4351	5.64685	6.87230	5.64686	0.00001
32.4999	34.4352	6.01699	7.06091	6.01699	-0.00000

f = INST FREQ / 1000.0

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

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

