

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: 2663
CALIBRATION DATE: 29-Mar-16

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

COEFFICIENTS:

g = -1.03533846e+001
h = 1.22807961e+000
i = -2.08480153e-003
j = 2.05154431e-004

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

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.90867	0.00000	0.00000
-1.0000	34.8016	2.80350	5.60294	2.80352	0.00002
1.0000	34.8020	2.97486	5.72655	2.97485	-0.00001
15.0000	34.8018	4.27002	6.58578	4.26998	-0.00005
18.5000	34.8010	4.61656	6.79715	4.61659	0.00003
29.0001	34.7985	5.69974	7.41850	5.69977	0.00003
32.5000	34.7880	6.07161	7.61993	6.07159	-0.00002

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = 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

