

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: 3860
CALIBRATION DATE: 08-Mar-17

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

COEFFICIENTS:

g = -1.03279592e+001
h = 1.48515534e+000
i = -1.19451927e-003
j = 1.68498282e-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	2.63883	0.00000	0.00000
-1.0000	34.7775	2.80174	5.08418	2.80173	-0.00001
1.0000	34.7776	2.97297	5.19638	2.97299	0.00002
15.0000	34.7775	4.26736	5.97624	4.26730	-0.00006
18.5000	34.7760	4.61360	6.16811	4.61365	0.00005
29.0000	34.7685	5.69537	6.73193	5.69538	0.00001
32.5001	34.7529	6.06619	6.91451	6.06618	-0.00001

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

