

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: 1860
CALIBRATION DATE: 11-Nov-16

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

COEFFICIENTS:

g = -3.95116956e+000
h = 5.10599607e-001
i = -6.22742579e-004
j = 5.76804877e-005

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	2.78529	0.00000	0.00000
-1.0000	34.5714	2.78668	7.90419	2.78669	0.00001
1.0000	34.5719	2.95706	8.11258	2.95707	0.00001
15.0001	34.5728	4.24490	9.53940	4.24484	-0.00006
18.5000	34.5723	4.58948	9.88572	4.58950	0.00002
29.0001	34.5711	5.66667	10.89572	5.66676	0.00008
32.5001	34.5680	6.03758	11.22170	6.03752	-0.00006

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

