

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: 2770
CALIBRATION DATE: 14-Mar-17

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

COEFFICIENTS:

g = -1.00880142e+001
h = 1.48322515e+000
i = -3.93661281e-003
j = 3.52192948e-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	2.61491	0.00000	0.00000
-1.0000	34.7865	2.80240	5.08779	2.80239	-0.00001
1.0000	34.7870	2.97370	5.20097	2.97371	0.00001
15.0000	34.7878	4.26849	5.98712	4.26848	-0.00001
18.5000	34.7869	4.61489	6.18040	4.61491	0.00002
29.0000	34.7801	5.69706	6.74818	5.69703	-0.00002
32.5000	34.7651	6.06807	6.93202	6.06809	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

