

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: 09-Dec-15

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

COEFFICIENTS:

g = -9.89163204e+000
h = 1.40010984e+000
i = 7.32856652e-004
j = 8.85372922e-006

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	2.65608	0.00000	0.00000
-1.0001	34.6451	2.79206	5.18927	2.79203	-0.00003
0.9999	34.6457	2.96276	5.30499	2.96278	0.00002
14.9999	34.6471	4.25304	6.10860	4.25307	0.00004
18.4999	34.6470	4.59832	6.30620	4.59831	-0.00000
28.9999	34.6454	5.67746	6.88717	5.67739	-0.00007
32.4999	34.6375	6.04832	7.07583	6.04837	0.00005

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

