



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 2251
CALIBRATION DATE: 07-Dec-17

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

COEFFICIENTS:

g = -1.03571618e+001
h = 1.36284070e+000
i = -1.66190988e-003
j = 1.95903380e-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	2.75989	0.00000	0.00000
-1.0001	34.5049	2.78181	5.29902	2.78181	0.00001
0.9999	34.5056	2.95192	5.41570	2.95191	-0.00001
14.9999	34.5053	4.23747	6.22674	4.23745	-0.00001
18.4999	34.5030	4.58126	6.42619	4.58128	0.00003
28.9999	34.4926	5.65523	7.01229	5.65520	-0.00002
32.4999	34.4753	6.02320	7.20203	6.02322	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

