



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

+1 425-643-0886
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 3861
CALIBRATION DATE: 12-May-17

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

COEFFICIENTS:

g = -1.02434023e+001
h = 1.36192518e+000
i = -7.83845916e-004
j = 1.24267225e-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	2.74372	0.00000	0.00000
-1.0000	34.5697	2.78656	5.29106	2.78655	-0.00001
1.0000	34.5701	2.95692	5.40793	2.95693	0.00001
15.0000	34.5701	4.24459	6.22020	4.24459	-0.00000
18.5000	34.5686	4.58904	6.41995	4.58903	-0.00001
29.0001	34.5582	5.66479	7.00695	5.66481	0.00002
32.5001	34.5401	6.03326	7.19688	6.03325	-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

