



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

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

SENSOR SERIAL NUMBER: 1335
CALIBRATION DATE: 31-Jan-18

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

COEFFICIENTS:

g = -3.97496095e+000
h = 5.02341364e-001
i = -7.69658941e-005
j = 3.19386198e-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	2.81288	0.00000	0.00000
-0.9999	34.1965	2.75926	7.91624	2.75925	-0.00001
1.0000	34.1962	2.92796	8.12432	2.92797	0.00001
15.0001	34.1947	4.20335	9.54968	4.20333	-0.00002
18.5000	34.1930	4.54451	9.89564	4.54451	0.00000
29.0001	34.1833	5.61019	10.90433	5.61021	0.00002
32.5000	34.1653	5.97516	11.22843	5.97515	-0.00002

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

