



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

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

SENSOR SERIAL NUMBER: 3657
CALIBRATION DATE: 11-Feb-20

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

COEFFICIENTS:

g = -9.91042921e+000
h = 1.40461622e+000
i = -3.55588347e-003
j = 3.35630442e-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	2.66297	0.00000	0.00000
-0.9968	34.8200	2.80512	5.21619	2.80512	-0.00000
1.0006	34.8194	2.97626	5.33249	2.97626	0.00000
14.9999	34.8164	4.27161	6.14124	4.27161	-0.00000
18.4999	34.8135	4.61803	6.33989	4.61803	0.00000
28.9999	34.8040	5.70052	6.92349	5.70052	-0.00000
32.4999	34.7860	6.07129	7.11215	6.07119	-0.00011

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

