



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

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

SENSOR SERIAL NUMBER: 2469
 CALIBRATION DATE: 31-Jan-23

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

COEFFICIENTS:

g = -9.82614693e+000
 h = 1.36986575e+000
 i = -2.44469692e-003
 j = 2.38626548e-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	2.68301	0.00000	0.00000
-1.0000	34.6923	2.79552	5.26374	2.79554	0.00002
1.0000	34.6928	2.96641	5.38142	2.96638	-0.00003
15.0000	34.6900	4.25776	6.19873	4.25778	0.00003
18.4999	34.6889	4.60328	6.39957	4.60327	-0.00001
29.0000	34.6802	5.68253	6.98948	5.68250	-0.00003
32.5000	34.6641	6.05244	7.18041	6.05247	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

