



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

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

SENSOR SERIAL NUMBER: 0482
CALIBRATION DATE: 10-May-24

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

COEFFICIENTS:

g = -9.82958773e+000
h = 1.65376320e+000
i = -4.29524097e-003
j = 4.42422472e-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	2.44380	0.00000	0.00000
-1.0000	34.4158	2.77530	4.78220	2.77527	-0.00003
0.9999	34.4156	2.94495	4.88900	2.94499	0.00004
15.0000	34.4169	4.22777	5.63064	4.22774	-0.00002
18.5000	34.4154	4.57089	5.81287	4.57089	0.00001
28.9999	34.4067	5.64272	6.34803	5.64274	0.00002
32.4999	34.3900	6.00999	6.52114	6.00998	-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

