



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

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

SENSOR SERIAL NUMBER: 4139
CALIBRATION DATE: 02-Apr-24

SBE 16plus CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.003225e+000
h = 1.379424e-001
i = -3.845628e-004
j = 4.544666e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2703.75	0.0000	0.00000
1.0000	34.6555	2.96353	5377.23	2.9635	-0.00000
4.5000	34.6361	3.26939	5580.25	3.2694	-0.00000
15.0000	34.5951	4.24734	6184.06	4.2474	0.00002
18.5000	34.5867	4.59119	6382.50	4.5912	-0.00000
24.0000	34.5772	5.14698	6690.50	5.1470	-0.00002
29.0000	34.5714	5.66670	6965.89	5.6667	0.00001
32.5000	34.5666	6.03735	7155.58	6.0374	-0.00000

f = Instrument Output (Hz) / 1000.0

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

