



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

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

SENSOR SERIAL NUMBER: 2980
CALIBRATION DATE: 20-Sep-23

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

COEFFICIENTS:

g = -1.00858782e+001
h = 1.24326996e+000
i = -1.05542648e-003
j = 1.27596125e-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	2.85048	0.00000	0.00000
-1.0000	34.6126	2.78969	5.53158	2.78971	0.00002
1.0000	34.6142	2.96033	5.65435	2.96031	-0.00002
15.0000	34.6153	4.24956	6.50725	4.24955	-0.00001
18.5000	34.6150	4.59454	6.71702	4.59455	0.00001
29.0000	34.6108	5.67244	7.33347	5.67243	-0.00001
32.5001	34.5982	6.04226	7.53324	6.04226	0.00000

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

