



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

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

SENSOR SERIAL NUMBER: 4229
CALIBRATION DATE: 04-Oct-19

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

COEFFICIENTS:

g = -9.73968023e+000
h = 1.50368463e+000
i = -1.46497841e-003
j = 2.16085042e-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	2.54701	0.00000	0.00000
-1.0000	34.8165	2.80459	5.01603	2.80458	-0.00001
1.0000	34.8167	2.97600	5.12842	2.97601	0.00001
15.0000	34.8170	4.27169	5.90868	4.27169	-0.00000
18.5000	34.8160	4.61833	6.10038	4.61834	0.00000
29.0000	34.8080	5.70111	6.66333	5.70111	0.00000
32.4999	34.7925	6.07230	6.84546	6.07217	-0.00013

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

