



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

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

SENSOR SERIAL NUMBER: 4222
CALIBRATION DATE: 21-Oct-22

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

COEFFICIENTS:

g = -9.94311705e+000
h = 1.39848192e+000
i = -2.64865897e-003
j = 2.58963245e-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	2.67144	0.00000	0.00000
-1.0000	34.7400	2.79900	5.22077	2.79901	0.00000
1.0000	34.7407	2.97012	5.33721	2.97012	-0.00000
14.9999	34.7413	4.26338	6.14594	4.26337	-0.00001
18.4999	34.7409	4.60943	6.34475	4.60944	0.00001
29.0001	34.7365	5.69073	6.92886	5.69072	-0.00000
32.5001	34.7234	6.06163	7.11805	6.06163	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

