



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

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

SENSOR SERIAL NUMBER: 4367
CALIBRATION DATE: 25-Jan-22

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

COEFFICIENTS:

g = -9.79869558e+000
h = 1.38846013e+000
i = -2.83410392e-007
j = 7.37324840e-005

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	2.65605	0.00000	0.00000
-1.0001	34.7240	2.79782	5.21234	2.79781	-0.00002
0.9999	34.7235	2.96878	5.32883	2.96880	0.00002
14.9998	34.7229	4.26135	6.13796	4.26135	0.00000
18.4999	34.7207	4.60704	6.33677	4.60704	-0.00000
28.9999	34.7108	5.68697	6.92085	5.68697	0.00000
32.5000	34.6911	6.05662	7.10967	6.05662	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

