



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

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

SENSOR SERIAL NUMBER: 3833
CALIBRATION DATE: 11-Feb-20

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

COEFFICIENTS:

g = -1.04962538e+001
h = 1.37483992e+000
i = -1.53178627e-003
j = 1.82695722e-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	2.76592	0.00000	0.00000
-0.9968	34.8200	2.80512	5.30082	2.80511	-0.00000
1.0006	34.8194	2.97626	5.41714	2.97627	0.00001
14.9999	34.8164	4.27161	6.22697	4.27161	-0.00001
18.4999	34.8135	4.61803	6.42613	4.61802	-0.00001
28.9999	34.8040	5.70052	7.01175	5.70055	0.00003
32.4999	34.7860	6.07129	7.20123	6.07127	-0.00002

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

