



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

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

SENSOR SERIAL NUMBER: 2490
CALIBRATION DATE: 01-Mar-19

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

COEFFICIENTS:

g = -9.94048558e+000
h = 1.51516893e+000
i = -1.07937360e-003
j = 1.68358396e-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	2.56278	0.00000	0.00000
-1.0000	34.5255	2.78332	4.99499	2.78332	-0.00000
0.9999	34.5253	2.95344	5.10613	2.95345	0.00001
15.0000	34.5225	4.23937	5.87822	4.23935	-0.00002
18.4999	34.5197	4.58324	6.06795	4.58325	0.00001
29.0000	34.5116	5.65800	6.62569	5.65802	0.00001
32.4999	34.4968	6.02653	6.80629	6.02652	-0.00001

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

