



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

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

SENSOR SERIAL NUMBER: 3168
 CALIBRATION DATE: 19-Feb-19

SBE 21 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -4.07634138e+000
 h = 4.80117078e-001
 i = -2.75234205e-004
 j = 3.82628003e-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)
22.0000	0.0000	0.00000	2.91526	0.00000	0.00000
1.0000	34.8317	2.97716	8.39302	2.97715	-0.00001
4.5000	34.8117	3.28433	8.76437	3.28435	0.00001
15.0000	34.7694	4.26647	9.85669	4.26646	-0.00001
18.5000	34.7602	4.61173	10.21243	4.61171	-0.00002
24.0473	34.7497	5.17470	10.76680	5.17473	0.00003
29.0183	34.7432	5.69363	11.25293	5.69361	-0.00001
32.5000	34.7375	6.06380	11.58682	6.06366	-0.00015

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

$$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

