



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

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

SENSOR SERIAL NUMBER: 3364
 CALIBRATION DATE: 25-Feb-20

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

COEFFICIENTS:

g = -4.07470284e+000 CPcor = -9.5700e-008 (nominal)
 h = 4.78736356e-001 CTcor = 3.2500e-006 (nominal)
 i = 3.28612594e-004
 j = 1.76255415e-005

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	2.91405	0.00000	0.00000
1.0000	34.9869	2.98915	8.38827	2.98917	0.00002
4.5000	34.9674	3.29757	8.75879	3.29763	0.00006
14.9999	34.9257	4.28360	9.84802	4.28324	-0.00036
18.5000	34.9168	4.63026	10.20350	4.63046	0.00020
23.9999	34.9070	5.19061	10.75184	5.19082	0.00021
29.0000	34.8995	5.71441	11.23932	5.71429	-0.00012
32.5000	34.8903	6.08743	11.57415	6.08767	0.00024

f = Instrument Output (kHz)

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

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

$$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$$

