

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1448
CALIBRATION DATE: 20-Jan-17

SBE 19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -4.15668896e+000
h = 4.95680299e-001
i = 1.37672484e-003
j = -3.73591977e-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	2.88519	0.00000	0.00000
1.0000	34.7224	2.96870	8.19087	2.96870	-0.00000
4.5000	34.7023	3.27503	8.55130	3.27504	0.00001
15.0000	34.6591	4.25436	9.61224	4.25434	-0.00002
18.5000	34.6495	4.59862	9.95811	4.59863	0.00000
23.9999	34.6391	5.15516	10.49289	5.15517	0.00001
29.0000	34.6329	5.67565	10.96925	5.67567	0.00002
32.5000	34.6287	6.04697	11.29669	6.04695	-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

