

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0436
CALIBRATION DATE: 19-Dec-14

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

COEFFICIENTS:

g = -3.80263897e+000
h = 4.53890498e-001
i = 1.05416031e-003
j = -3.12232862e-005

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2.88563	0.00000	0.00000
1.0000	34.7705	2.97242	8.53154	2.97238	-0.00004
4.5000	34.7503	3.27911	8.91148	3.27915	0.00004
15.0000	34.7066	4.25958	10.02909	4.25963	0.00005
18.5000	34.6964	4.60418	10.39308	4.60412	-0.00005
24.0000	34.6842	5.16114	10.95593	5.16113	-0.00001
29.0000	34.6760	5.68192	11.45710	5.68194	0.00002
32.5000	34.6713	6.05356	11.80217	6.05411	0.00055

$$f = \text{INST FREQ} / 1000.0$$

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

t = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

