

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3936

CALIBRATION DATE: 22-Sep-15

SBE 37 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.017872e+000

h = 1.416700e-001

i = -1.289342e-004

j = 3.136175e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 7.1795e-006

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2681.38	0.00000	0.00000
1.0000	34.6374	2.96213	5296.65	2.96215	0.00002
4.5000	34.6176	3.26782	5495.41	3.26780	-0.00002
15.0000	34.5747	4.24510	6086.73	4.24508	-0.00002
18.5000	34.5656	4.58869	6281.12	4.58870	0.00001
24.0000	34.5558	5.14414	6582.93	5.14416	0.00002
29.0000	34.5508	5.66371	6852.84	5.66369	-0.00001
32.5001	34.5485	6.03456	7038.95	6.03447	-0.00009

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

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

Residual = instrument conductivity - bath conductivity

