

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0826

CALIBRATION DATE: 13-Sep-14

SBE 37 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

$g = -1.056072e+000$

$h = 1.556813e-001$

$i = 6.146474e-006$

$j = 2.687556e-005$

$CP_{cor} = -9.5700e-008$

$CT_{cor} = 3.2500e-006$

$WBOTC = -2.7407e-005$

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	2603.66	0.00000	0.00000
0.9999	34.7298	2.96927	5073.21	2.96925	-0.00001
4.5000	34.7100	3.27568	5262.16	3.27571	0.00003
15.0000	34.6678	4.25532	5824.59	4.25529	-0.00003
18.4999	34.6585	4.59968	6009.62	4.59967	-0.00001
24.0000	34.6474	5.15627	6297.00	5.15631	0.00003
29.0000	34.6399	5.67667	6554.04	5.67668	0.00001
32.5000	34.6319	6.04746	6731.07	6.04745	-0.00001

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

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

$t = \text{temperature} [^{\circ}\text{C}]$; $p = \text{pressure} [\text{decibars}]$; $\delta = CT_{cor}$; $\epsilon = CP_{cor}$;

Residual = instrument conductivity - bath conductivity

