

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0826
CALIBRATION DATE: 09-Dec-16

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.056124e+000
h = 1.557289e-001
i = -1.434923e-005
j = 2.867018e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7407e-005

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2603.67	0.00000	0.00000
1.0000	34.7433	2.97032	5074.09	2.97034	0.00002
4.4999	34.7242	3.27688	5263.06	3.27686	-0.00002
15.0000	34.6822	4.25690	5825.69	4.25689	-0.00001
18.5000	34.6737	4.60149	6010.82	4.60150	0.00001
24.0000	34.6646	5.15855	6298.37	5.15857	0.00002
29.0000	34.6603	5.67964	6555.69	5.67962	-0.00001
32.5000	34.6590	6.05166	6733.17	6.05145	-0.00020

$f = \text{Instrument Output(Hz)} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

