

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 21-Nov-15

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

COEFFICIENTS:

g = -9.797628e-001
h = 1.393302e-001
i = -2.214577e-004
j = 4.444365e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.1929e-006

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	2654.36	0.00000	0.00000
1.0000	34.6169	2.96054	5316.42	2.96053	-0.00001
4.5000	34.5962	3.26600	5517.63	3.26601	0.00001
15.0000	34.5541	4.24284	6115.70	4.24283	-0.00000
18.5001	34.5453	4.58629	6312.15	4.58630	0.00001
24.0000	34.5366	5.14160	6617.00	5.14158	-0.00002
29.0000	34.5309	5.66081	6889.41	5.66082	0.00001
32.5000	34.5282	6.03141	7077.12	6.03131	-0.00009

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

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

