

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 16-Dec-16

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

COEFFICIENTS:

g = -1.012822e+000
h = 1.503052e-001
i = -1.180328e-004
j = 3.558223e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.9558e-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	2596.17	0.00000	0.00000
0.9999	34.7238	2.96880	5141.14	2.96879	-0.00001
4.4999	34.7040	3.27516	5334.35	3.27518	0.00001
15.0000	34.6618	4.25466	5908.92	4.25467	0.00001
18.5000	34.6527	4.59900	6097.75	4.59899	-0.00001
24.0000	34.6426	5.15564	6390.88	5.15563	-0.00000
29.0000	34.6368	5.67622	6653.00	5.67622	0.00001
32.5000	34.6332	6.04766	6833.68	6.04766	-0.00000

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

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

