

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0210
CALIBRATION DATE: 07-Nov-14

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

COEFFICIENTS:

g = -9.758112e-001
h = 1.373867e-001
i = -3.131361e-004
j = 4.449316e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-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	2670.13	0.0000	0.00000
1.0000	34.7530	2.97107	5367.68	2.9711	0.00000
4.5000	34.7329	3.27763	5571.54	3.2776	-0.00001
15.0000	34.6890	4.25765	6177.39	4.2576	0.00000
18.5000	34.6799	4.60222	6376.41	4.6022	0.00001
24.0000	34.6701	5.15928	6685.26	5.1593	-0.00000
28.9999	34.6645	5.68024	6961.31	5.6802	-0.00000
32.4999	34.6621	6.05212	7151.62	6.0521	0.00000

f = INST FREQ / 1000.0

Conductivity = (g + h * f² + i * f³ + j * f⁴) / (1 + δ * t + ε * p) Siemens / meter

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

Residual = instrument conductivity - bath conductivity

