

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0211
CALIBRATION DATE: 07-Nov-14

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

COEFFICIENTS:

g = -1.005182e+000
h = 1.347301e-001
i = -4.557012e-004
j = 5.295817e-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	2740.10	0.0000	0.00000
1.0000	34.7530	2.97107	5451.03	2.9711	0.00002
4.5000	34.7329	3.27763	5656.68	3.2776	-0.00003
15.0000	34.6890	4.25765	6268.15	4.2576	0.00000
18.5000	34.6799	4.60222	6469.06	4.6022	-0.00001
24.0000	34.6701	5.15928	6780.92	5.1593	0.00002
28.9999	34.6645	5.68024	7059.64	5.6802	-0.00000
32.4999	34.6621	6.05212	7251.80	6.0521	-0.00000

f = INST FREQ / 1000.0

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

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

Residual = instrument conductivity - bath conductivity

