

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: 0823

CALIBRATION DATE: 29-Sep-15

SBE 37 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.030976e+000

h = 1.551855e-001

i = -1.213927e-004

j = 3.681763e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = -2.7202e-005

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	2578.84	0.00000	0.00000
1.0000	34.8291	2.97695	5076.64	2.97696	0.00001
4.5000	34.8090	3.28410	5267.01	3.28410	0.00000
15.0000	34.7667	4.26617	5833.52	4.26613	-0.00004
18.4999	34.7573	4.61138	6019.82	4.61140	0.00003
24.0000	34.7476	5.16954	6309.12	5.16955	0.00001
29.0000	34.7424	5.69158	6567.91	5.69156	-0.00001
32.4999	34.7387	6.06398	6746.32	6.06398	0.00000

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

