

SEA-BIRD ELECTRONICS, INC.

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

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

SENSOR SERIAL NUMBER: 0607
CALIBRATION DATE: 23-Jul-11

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 7.161415e-005
a1 = 2.692580e-004
a2 = -2.095229e-006
a3 = 1.422178e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50010	746066.6	-1.50008	0.00002
0.99990	664565.5	0.99992	0.00002
4.50000	566872.6	4.49991	-0.00009
7.99990	485166.7	7.99989	-0.00001
11.49990	416591.6	11.49994	0.00004
14.99990	358843.3	14.99996	0.00006
18.49990	310052.8	18.49991	0.00001
21.99990	268697.0	21.99989	-0.00001
25.49990	233534.3	25.49985	-0.00005
28.99990	203545.9	28.99988	-0.00002
32.49990	177895.3	32.49994	0.00004

Temperature ITS-90 = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

