

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0604
CALIBRATION DATE: 19-Feb-11

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 3.524793e-005
a1 = 2.676799e-004
a2 = -2.048038e-006
a3 = 1.391905e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	907132.9	-1.50000	0.00000
0.99990	807865.5	0.99991	0.00001
4.49990	688901.2	4.49987	-0.00003
7.99990	589430.3	7.99989	-0.00001
11.49990	505970.0	11.49989	-0.00001
14.99990	435703.9	14.99994	0.00004
18.49990	376352.9	18.49992	0.00002
21.99990	326060.0	21.99988	-0.00002
25.49990	283308.9	25.49988	-0.00002
28.99990	246858.8	28.99989	-0.00001
32.49990	215689.2	32.49992	0.00002

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

