

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0818
CALIBRATION DATE: 02-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.127602e-005

a1 = 2.868043e-004

a2 = -3.133861e-006

a3 = 1.781660e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	576715.0	1.0000	0.0001
4.4999	494027.9	4.4998	-0.0001
15.0000	316527.5	15.0001	0.0001
18.5000	274539.6	18.5001	0.0001
24.0000	220807.4	23.9999	-0.0001
29.0000	182222.4	28.9999	-0.0001
32.5000	159816.9	32.5001	0.0001

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

