

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0811
 CALIBRATION DATE: 03-Jun-08

SBE 37 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.384185e-005
 a1 = 2.842361e-004
 a2 = -3.082895e-006
 a3 = 1.723936e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	641184.1	0.9999	-0.0001
4.5000	548247.0	4.5002	0.0002
15.0002	349454.9	15.0000	-0.0002
18.5000	302597.6	18.5001	0.0001
24.0000	242762.1	24.0000	0.0000
29.0001	199898.3	29.0001	0.0000
32.5000	175058.2	32.5000	-0.0000

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

