

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2003
CALIBRATION DATE: 11-Dec-08

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.361312e-006
a1 = 2.801684e-004
a2 = -2.781654e-006
a3 = 1.689210e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	635481.1	1.0000	-0.0000
4.5000	543960.8	4.5000	0.0000
15.0000	347760.9	15.0000	-0.0000
18.5000	301411.1	18.5000	0.0000
24.0000	242143.7	23.9999	-0.0001
29.0000	199624.3	29.0001	0.0001
32.4999	174956.5	32.4998	-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

