

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0829
CALIBRATION DATE: 06-Nov-08

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 5.693814e-006
a1 = 2.752567e-004
a2 = -2.426677e-006
a3 = 1.554122e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	695244.1	1.0000	0.0000
4.4999	594506.3	4.4999	-0.0000
15.0000	378972.5	15.0000	-0.0000
18.4999	328167.4	18.4999	0.0000
23.9999	263278.0	24.0000	0.0001
28.9999	216794.3	28.9997	-0.0002
32.5001	189847.7	32.5002	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

