

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0815
CALIBRATION DATE: 02-Mar-07

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -3.124942e-004

a1 = 3.359132e-004

a2 = -6.444179e-006

a3 = 2.624704e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	627197.5	1.0000	-0.0000
4.5000	539040.3	4.5000	0.0000
15.0000	348696.9	14.9999	-0.0001
18.5000	303382.9	18.5000	-0.0000
24.0000	245179.8	24.0002	0.0002
29.0000	203213.7	28.9998	-0.0002
32.5000	178760.1	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

