

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1247
CALIBRATION DATE: 02-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.796539e-004
a1 = 3.354610e-004
a2 = -6.533654e-006
a3 = 2.619183e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	607612.5	1.0000	0.0001
4.4999	521325.7	4.4998	-0.0001
15.0000	335601.1	15.0001	0.0001
18.5000	291543.4	18.5000	0.0000
24.0000	235066.5	23.9999	-0.0001
29.0000	194432.9	29.0000	-0.0000
32.5000	170801.6	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

