

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 08-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.699841e-004
a1 = 3.310655e-004
a2 = -6.191373e-006
a3 = 2.506690e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	638222.8	1.0000	0.0000
4.5000	547342.0	4.4999	-0.0001
15.0000	351909.9	15.0000	0.0000
18.5000	305589.6	18.5001	0.0001
24.0000	246247.4	23.9999	-0.0001
29.0001	203574.3	29.0001	0.0000
32.5000	178770.8	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

