

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0812
CALIBRATION DATE: 08-Dec-09

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.521604e-004
a1 = 3.331887e-004
a2 = -6.501603e-006
a3 = 2.591650e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0001	614964.8	1.0001	0.0000
4.5000	526878.5	4.4999	-0.0001
14.9999	337782.0	15.0000	0.0001
18.5000	293051.9	18.4999	-0.0001
24.0000	235806.8	23.9999	-0.0001
29.0000	194698.4	29.0001	0.0001
32.4999	170830.3	32.4999	-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

