

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1851
CALIBRATION DATE: 19-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.984324e-005
a1 = 2.833622e-004
a2 = -2.895140e-006
a3 = 1.713239e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	634064.4	1.0000	-0.0000
4.5000	543156.0	4.5000	0.0000
15.0000	348015.1	15.0001	0.0001
18.5000	301853.5	18.4998	-0.0002
23.9999	242769.2	24.0000	0.0001
29.0000	200343.5	29.0000	-0.0000
32.4999	175708.3	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

