

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0810
CALIBRATION DATE: 01-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.441669e-005
a1 = 2.771356e-004
a2 = -2.479267e-006
a3 = 1.560418e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	636531.8	0.9998	-0.0001
4.4999	544333.0	4.5001	0.0002
15.0000	347095.9	14.9999	-0.0001
18.5000	300596.8	18.5000	-0.0000
24.0000	241207.2	24.0000	-0.0000
29.0000	198655.3	29.0002	0.0002
32.5000	173994.2	32.4998	-0.0002

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

