

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1804
CALIBRATION DATE: 16-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -9.629023e-005
a1 = 2.964858e-004
a2 = -4.069557e-006
a3 = 2.007057e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	703382.9	1.0000	0.0001
4.5000	602002.8	4.4999	-0.0001
15.0000	384696.1	15.0001	0.0001
18.5000	333377.0	18.5000	0.0000
24.0000	267766.2	24.0001	0.0001
28.9999	220714.9	28.9996	-0.0003
32.5000	193412.8	32.5002	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

