

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0417
CALIBRATION DATE: 02-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -3.698048e-005
a1 = 2.858978e-004
a2 = -3.255181e-006
a3 = 1.760486e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	693401.8	1.0000	0.0001
4.4999	592786.1	4.4997	-0.0002
15.0000	377600.4	15.0001	0.0001
18.5000	326906.9	18.5000	0.0000
24.0000	262181.0	23.9999	-0.0001
29.0000	215828.8	28.9999	-0.0001
32.5000	188969.5	32.5001	0.0001

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

