

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 18-Aug-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.771168e-004
a1 = 2.927763e-004
a2 = -3.274474e-006
a3 = 1.737060e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	838145.5	1.0001	0.0001
4.5000	718980.4	4.4998	-0.0002
14.9999	462591.2	14.9999	0.0000
18.5000	401782.1	18.5001	0.0001
23.9999	323849.0	23.9999	0.0000
29.0000	267786.0	28.9997	-0.0003
32.5001	235176.1	32.5003	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

