

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3423
CALIBRATION DATE: 10-Jun-09

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.601343e-004
a1 = 3.142881e-004
a2 = -4.946830e-006
a3 = 2.162128e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	818445.8	1.0001	0.0001
4.4999	701876.3	4.4997	-0.0002
15.0000	451183.0	15.0001	0.0001
18.5000	391766.9	18.5001	0.0001
24.0000	315642.4	23.9999	-0.0001
29.0000	260903.6	28.9999	-0.0001
32.5000	229082.5	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

