

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1246
 CALIBRATION DATE: 10-Dec-09

SBE 37 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.253516e-005
 a1 = 2.751518e-004
 a2 = -2.278025e-006
 a3 = 1.533937e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	612854.7	1.0001	0.0001
4.5000	524563.1	4.4998	-0.0002
15.0000	335323.4	15.0002	0.0002
18.4999	290636.4	18.4998	-0.0001
24.0000	233492.7	24.0000	0.0000
29.0000	192505.3	28.9998	-0.0002
32.5001	168721.4	32.5002	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

