

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0814
 CALIBRATION DATE: 11-Jun-09

SBE 37 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.717175e-004
 a1 = 3.282873e-004
 a2 = -5.913381e-006
 a3 = 2.459622e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	639154.0	1.0001	0.0001
4.5000	548738.6	4.4999	-0.0001
15.0000	353897.9	15.0000	0.0000
18.5000	307614.7	18.5001	0.0001
24.0000	248243.7	24.0000	-0.0000
29.0000	205491.2	28.9998	-0.0002
32.4999	180607.9	32.5000	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

