

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1242
 CALIBRATION DATE: 10-Dec-09

SBE 37 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.013971e-004
 a1 = 2.974448e-004
 a2 = -3.977581e-006
 a3 = 1.969361e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	668140.8	1.0001	0.0001
4.5000	572141.6	4.4999	-0.0001
15.0000	366200.1	15.0002	0.0002
18.4999	317525.0	18.4999	-0.0000
24.0000	255255.2	23.9999	-0.0001
29.0000	210563.3	29.0000	0.0000
32.5001	184623.1	32.5001	0.0000

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

