

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0815
 CALIBRATION DATE: 08-Dec-09

SBE 37 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.949513e-004
 a1 = 3.316241e-004
 a2 = -6.096049e-006
 a3 = 2.530838e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0001	627204.4	1.0001	0.0000
4.5000	539049.1	4.5000	-0.0000
14.9999	348703.4	14.9999	0.0000
18.5000	303389.7	18.5000	0.0000
24.0000	245189.8	24.0000	-0.0000
29.0000	203221.4	29.0000	-0.0000
32.4999	178769.8	32.4999	0.0000

Temperature ITS-90 = $1/[a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]] - 273.15$ (°C)

Residual = instrument temperature - bath temperature

