

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1245
CALIBRATION DATE: 10-Dec-09

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -6.949532e-005

a1 = 2.933712e-004

a2 = -3.651338e-006

a3 = 1.904849e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	623949.9	1.0001	0.0001
4.5000	534482.1	4.4998	-0.0002
15.0000	342423.0	15.0001	0.0001
18.4999	296996.4	18.4999	0.0000
24.0000	238860.2	23.9999	-0.0001
29.0000	197116.7	28.9999	-0.0001
32.5001	172876.5	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

