

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0087
 CALIBRATION DATE: 05-Jun-09

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.872469e-005
 a1 = 2.662243e-004
 a2 = -1.828590e-006
 a3 = 1.390863e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	671839.1	0.9999	0.0000
4.4999	573857.8	4.4998	-0.0001
15.0000	364653.5	15.0000	0.0000
18.5000	315448.7	18.5000	0.0000
24.0000	252683.2	24.0000	0.0000
29.0224	207604.2	29.0223	-0.0001
32.5402	181512.3	32.5402	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

