

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0269
CALIBRATION DATE: 08-Feb-11

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -7.171910e-006
a1 = 2.801028e-004
a2 = -2.937772e-006
a3 = 1.622149e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	754320.0	1.0000	-0.0000
4.5000	643413.6	4.5000	0.0000
15.0000	407261.7	14.9999	-0.0001
18.5000	351875.7	18.5001	0.0001
23.9999	281350.2	23.9998	-0.0001
29.0000	230989.1	29.0001	0.0001
32.5000	201880.8	32.4999	-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

