

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2024
CALIBRATION DATE: 05-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -6.811758e-005
a1 = 2.903248e-004
a2 = -3.565010e-006
a3 = 1.883868e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	687869.1	1.0000	-0.0000
4.4999	588891.2	4.5000	0.0001
14.9999	376638.6	14.9998	-0.0001
18.4999	326480.4	18.4999	0.0000
23.9999	262333.6	24.0000	0.0001
29.0000	216309.3	29.0000	-0.0000
32.5000	189601.5	32.5000	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

