

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1863
CALIBRATION DATE: 21-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 4.873350e-005
a1 = 2.714914e-004
a2 = -2.151451e-006
a3 = 1.534919e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	612589.6	1.0000	0.0000
4.5000	524260.7	4.4999	-0.0001
15.0000	334960.1	15.0000	-0.0000
18.5000	290256.6	18.5001	0.0001
23.9999	233109.4	23.9998	-0.0001
29.0000	192118.8	29.0000	0.0000
32.5000	168341.0	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

