

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4920
CALIBRATION DATE: 06-Mar-07

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.593633e-005

a1 = 2.756973e-004

a2 = -2.423473e-006

a3 = 1.568568e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	649142.0	1.0000	0.0000
4.5000	555311.2	4.5000	-0.0000
14.9999	354406.0	14.9999	0.0000
18.4999	307007.1	18.5000	0.0001
24.0000	246443.0	23.9999	-0.0001
28.9999	203031.5	28.9999	-0.0000
32.5000	177857.9	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

