

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0204
CALIBRATION DATE: 05-Mar-11

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 9.837674e-005
a1 = 2.445597e-004
a2 = 9.448582e-008
a3 = 9.007125e-008

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	751593.0	0.9998	-0.0001
4.5000	643442.8	4.5002	0.0002
15.0000	411629.2	14.9998	-0.0002
18.5000	356850.3	18.5000	-0.0000
23.9999	286791.1	24.0001	0.0002
29.0000	236516.4	29.0000	0.0000
32.5000	207337.1	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

