

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 02-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -4.188181e-005
a1 = 2.893597e-004
a2 = -3.289366e-006
a3 = 1.837720e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	578621.7	0.9999	-0.0000
4.4999	496019.0	4.4999	0.0000
15.0000	318465.5	15.0000	-0.0000
18.5000	276401.0	18.5001	0.0001
24.0000	222525.4	23.9999	-0.0001
29.0000	183799.5	29.0001	0.0001
32.5000	161296.9	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

