

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2448
CALIBRATION DATE: 25-Nov-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -7.130244e-005
a1 = 2.941017e-004
a2 = -3.876364e-006
a3 = 1.938280e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	677351.5	1.0000	0.0000
4.5000	579351.5	4.5000	-0.0000
15.0000	369567.9	15.0001	0.0001
18.5000	320096.0	18.4998	-0.0002
23.9999	256888.1	24.0000	0.0001
28.9999	211595.9	28.9999	-0.0000
32.5000	185338.2	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

