

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 02-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.166274e-005
a1 = 2.781862e-004
a2 = -2.437054e-006
a3 = 1.583565e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	655984.0	1.0002	0.0002
4.5000	562060.8	4.4997	-0.0003
15.0000	360348.0	15.0002	0.0002
18.5000	312614.0	18.5002	0.0002
24.0000	251515.1	23.9996	-0.0004
29.0000	207618.2	29.0001	0.0001
32.5000	182125.5	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

