

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0605
CALIBRATION DATE: 19-Feb-11

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.607006e-005

a1 = 2.729996e-004

a2 = -2.360152e-006

a3 = 1.491974e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	816078.6	-1.50001	-0.00001
0.99990	727239.2	0.99993	0.00003
4.49990	620692.8	4.49988	-0.00002
7.99990	531527.4	7.99988	-0.00002
11.49990	456648.9	11.49990	0.00000
14.99990	393556.5	14.99993	0.00003
18.49990	340221.4	18.49990	0.00000
21.99990	294989.8	21.99990	0.00000
25.49990	256512.1	25.49988	-0.00002
28.99990	223680.4	28.99989	-0.00001
32.49990	195584.4	32.49991	0.00001

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

