

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0818
CALIBRATION DATE: 17-Jan-12

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.643092e-006
a1 = 2.781695e-004
a2 = -2.685869e-006
a3 = 1.570867e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	787299.1	-1.5001	0.0000
0.9999	701708.3	0.9999	0.0000
4.4999	599042.3	4.4999	-0.0000
7.9999	513108.5	7.9999	-0.0000
11.4999	440929.9	11.4999	0.0000
14.9999	380100.9	14.9999	0.0000
18.4999	328668.8	18.4999	0.0000
21.9999	285043.0	21.9999	0.0000
25.4999	247924.0	25.4999	-0.0000
28.9999	216245.9	28.9999	-0.0000
32.4999	189131.5	32.4999	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

