

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0507
CALIBRATION DATE: 13-Jan-12

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.311950e-005
a1 = 2.787975e-004
a2 = -2.550096e-006
a3 = 1.653003e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	702270.6	-1.5001	0.0000
0.9999	627821.9	0.9999	-0.0000
4.4999	538182.0	4.4999	-0.0000
7.9999	462829.4	7.9999	-0.0000
11.4999	399273.8	11.4999	0.0000
14.9999	345493.5	15.0000	0.0001
18.4999	299842.5	18.4999	0.0000
21.9999	260971.0	21.9999	0.0000
25.4999	227773.9	25.4998	-0.0001
28.9999	199338.9	28.9999	-0.0000
32.4999	174914.5	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

