

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0580
CALIBRATION DATE: 11-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.111849e-005
a1 = 2.618582e-004
a2 = -1.783266e-006
a3 = 1.510358e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	830140.9	-1.4999	0.0001
1.0000	741402.1	0.9999	-0.0001
4.5000	634649.8	4.5000	-0.0000
8.0000	545006.3	8.0000	-0.0000
11.5000	469479.1	11.5000	0.0000
15.0000	405639.5	15.0001	0.0001
18.5000	351510.2	18.5001	0.0001
22.0000	305473.4	22.0000	0.0000
25.5000	266202.8	25.4999	-0.0001
29.0000	232605.6	28.9999	-0.0001
32.5000	203780.8	32.5001	0.0001

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

