

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0806
CALIBRATION DATE: 12-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.064439e-004

a1 = 3.148790e-004

a2 = -5.053580e-006

a3 = 2.150540e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	803545.3	-1.5000	0.0000
1.0000	717480.4	1.0000	-0.0000
4.5000	614034.7	4.4999	-0.0001
8.0000	527246.7	8.0000	-0.0000
11.5000	454184.7	11.5000	0.0000
15.0000	392474.9	15.0001	0.0001
18.5000	340183.9	18.5000	0.0000
22.0000	295734.6	22.0000	0.0000
25.5000	257834.9	25.4999	-0.0001
29.0000	225421.9	28.9999	-0.0001
32.5000	197620.5	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

