

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1638
CALIBRATION DATE: 13-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.368297e-004
a1 = 3.089941e-004
a2 = -4.539508e-006
a3 = 2.067087e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	906780.5	-1.4999	0.0001
1.0000	811001.4	0.9999	-0.0001
4.5000	695638.8	4.4999	-0.0001
8.0000	598621.9	8.0000	-0.0000
11.5000	516760.8	11.5001	0.0001
15.0000	447464.0	15.0000	0.0000
18.5000	388615.0	18.5000	0.0000
22.0000	338484.2	22.0000	-0.0000
25.5000	295651.5	25.4999	-0.0001
29.0000	258946.6	29.0000	-0.0000
32.5001	227402.1	32.5002	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

n = instrument output

