

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1636
CALIBRATION DATE: 14-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.917979e-004
a1 = 3.049340e-004
a2 = -4.260630e-006
a3 = 2.016127e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	824548.4	-1.4999	0.0001
1.0000	737441.4	0.9999	-0.0001
4.5000	632525.0	4.5000	-0.0000
8.0000	544294.7	8.0000	-0.0000
11.5000	469848.2	11.5001	0.0001
15.0000	406828.5	15.0000	0.0000
18.5000	353310.8	18.5000	0.0000
22.0000	307722.0	22.0000	-0.0000
25.5000	268770.7	25.5000	-0.0000
29.0000	235392.8	28.9999	-0.0001
32.5000	206708.3	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

n = instrument output

