

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0987
CALIBRATION DATE: 14-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.389024e-004
a1 = 3.162279e-004
a2 = -5.119827e-006
a3 = 2.154411e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	875315.8	-1.4999	0.0001
1.0000	781682.8	0.9999	-0.0001
4.5000	669119.2	4.4999	-0.0001
8.0000	574661.8	8.0000	-0.0000
11.5000	495128.9	11.5000	0.0000
15.0000	427940.4	15.0001	0.0001
18.5000	370996.2	18.5000	0.0000
22.0000	322581.9	22.0000	0.0000
25.5000	281294.0	25.4999	-0.0001
29.0000	245976.9	28.9999	-0.0001
32.5000	215679.3	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

