

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1623
CALIBRATION DATE: 14-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.650875e-005
a1 = 2.783571e-004
a2 = -2.478229e-006
a3 = 1.610564e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	718037.7	-1.5000	0.0000
1.0000	641767.3	1.0000	-0.0000
4.5000	549965.7	4.4999	-0.0001
8.0000	472822.8	8.0000	-0.0000
11.5000	407781.1	11.5000	0.0000
15.0000	352763.0	15.0000	0.0000
18.5000	306074.7	18.5000	0.0000
22.0000	266333.4	22.0000	-0.0000
25.5000	232402.8	25.4999	-0.0001
29.0000	203347.3	29.0000	-0.0000
32.5000	178396.5	32.5000	0.0000

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

