

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0992
CALIBRATION DATE: 12-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 5.451448e-005
a1 = 2.693464e-004
a2 = -2.119318e-006
a3 = 1.422317e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	800031.8	-1.5000	0.0000
1.0000	712625.3	1.0000	-0.0000
4.5000	607852.1	4.5000	-0.0000
8.0000	520224.9	8.0000	-0.0000
11.5000	446682.8	11.5000	0.0000
15.0000	384752.8	15.0000	0.0000
18.5000	332429.9	18.5000	0.0000
22.0000	288081.2	22.0000	-0.0000
25.5000	250374.6	25.5000	-0.0000
29.0000	218217.5	29.0000	-0.0000
32.5000	190712.2	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

