

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1420
CALIBRATION DATE: 19-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 3.121988e-005
a1 = 2.703522e-004
a2 = -1.989421e-006
a3 = 1.453279e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	742444.4	-1.4999	0.0001
1.0000	662793.2	1.0000	-0.0000
4.5000	567060.8	4.4999	-0.0001
8.0000	486747.4	7.9999	-0.0001
11.5000	419139.2	11.5001	0.0001
14.9999	362042.0	15.0000	0.0001
18.5000	313660.9	18.5001	0.0001
21.9999	272542.6	21.9998	-0.0001
25.5000	237483.8	25.4999	-0.0001
28.9999	207507.3	28.9998	-0.0001
32.5000	181798.3	32.5001	0.0001

Temperature ITS-90 = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

