

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0991
CALIBRATION DATE: 03-Jul-12

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -7.214842e-005
a1 = 2.936036e-004
a2 = -3.671688e-006
a3 = 1.941261e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	685269.4	-1.4999	0.0001
1.0000	612640.4	0.9999	-0.0001
4.5000	525186.9	4.5000	-0.0000
8.0002	451665.6	8.0002	-0.0000
11.5001	389659.0	11.5001	-0.0000
14.9998	337189.3	14.9999	0.0001
18.5000	292645.6	18.5000	0.0000
22.0000	254719.7	22.0000	-0.0000
25.5000	222329.2	25.5000	-0.0000
28.9999	194587.9	28.9998	-0.0001
32.4999	170756.4	32.5000	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

