

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1421
CALIBRATION DATE: 12-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.682827e-005
a1 = 2.668410e-004
a2 = -1.858175e-006
a3 = 1.384440e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	895256.3	-1.5000	0.0000
1.0000	798496.6	1.0000	-0.0000
4.5000	682324.3	4.5000	-0.0000
8.0000	584983.1	8.0000	-0.0000
11.5000	503140.0	11.5000	0.0000
15.0000	434099.0	15.0000	0.0000
18.5000	375667.0	18.5000	0.0000
22.0000	326057.6	22.0000	-0.0000
25.5000	283809.5	25.4999	-0.0001
29.0000	247721.5	29.0000	-0.0000
32.5000	216806.4	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

