

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0807
CALIBRATION DATE: 11-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.926156e-005

a1 = 2.753186e-004

a2 = -2.373359e-006

a3 = 1.585893e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	795906.1	-1.4999	0.0001
1.0000	711170.7	0.9999	-0.0001
4.5000	609204.9	4.5000	-0.0000
8.0000	523549.1	8.0000	-0.0000
11.5000	451352.0	11.5000	0.0000
15.0000	390300.3	15.0000	0.0000
18.5000	338508.9	18.5000	0.0000
22.0000	294437.6	22.0000	0.0000
25.5000	256822.5	25.4999	-0.0001
29.0000	224623.3	28.9999	-0.0001
32.5000	196981.0	32.5001	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

