

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1425
CALIBRATION DATE: 17-Dec-10

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.009345e-005
a1 = 2.699127e-004
a2 = -2.036846e-006
a3 = 1.434781e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	911870.3	-1.5000	-0.0000
0.9999	813678.5	0.9999	0.0000
4.4999	695723.4	4.4999	0.0000
8.0000	596828.3	8.0000	-0.0000
11.5000	513630.1	11.5000	-0.0000
15.0000	443403.8	15.0000	0.0000
18.5000	383935.5	18.5000	0.0000
22.0000	333418.8	22.0000	-0.0000
25.5000	290372.7	25.5000	0.0000
29.0000	253585.3	29.0000	0.0000
32.5000	222055.1	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

