

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0818
CALIBRATION DATE: 04-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.617537e-005
a1 = 2.759720e-004
a2 = -2.516951e-006
a3 = 1.527584e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	787292.4	-1.5000	0.0000
0.9999	701703.3	0.9999	0.0000
4.5000	599037.3	4.4999	-0.0001
8.0000	513103.2	8.0000	-0.0000
11.4999	440925.4	11.5000	0.0001
15.0000	380096.8	15.0000	0.0000
18.5000	328664.9	18.5000	0.0000
22.0000	285039.5	22.0000	-0.0000
25.4999	247921.1	25.4999	0.0000
29.0000	216242.7	28.9999	-0.0001
32.4999	189128.0	32.4999	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

n = instrument output

