

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3759

CALIBRATION DATE: 05-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 1.609370e-005

a1 = 2.793010e-004

a2 = -2.698025e-006

a3 = 1.625225e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	696565.3	-1.5001	0.0000
0.9999	621529.0	0.9999	0.0000
4.5000	531398.2	4.4999	-0.0001
7.9999	455837.5	7.9999	0.0000
11.4999	392274.5	11.5000	0.0001
15.0000	338626.5	15.0000	-0.0000
18.4999	293201.0	18.5000	0.0001
22.0000	254616.0	22.0000	-0.0000
25.4999	221741.5	25.4999	-0.0000
29.0000	193647.7	28.9999	-0.0001
32.4999	169570.2	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

n = instrument output

