

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1500  
CALIBRATION DATE: 12-Oct-12

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 4.038926e-005  
a1 = 2.673872e-004  
a2 = -1.860732e-006  
a3 = 1.394307e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	800071.8	-1.5000	-0.0000
0.9999	713645.5	0.9999	0.0000
4.5000	609873.3	4.5000	-0.0000
8.0000	522917.1	8.0000	-0.0000
11.5000	449799.4	11.5000	0.0000
15.0000	388113.6	15.0000	0.0000
18.5000	335902.8	18.5000	0.0000
22.0000	291571.8	22.0000	0.0000
25.5000	253815.8	25.5000	-0.0000
29.0000	221562.9	29.0000	-0.0000
32.5000	193930.8	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

n = instrument output

