

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5287  
CALIBRATION DATE: 03-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -7.330332e-005  
a1 = 3.056712e-004  
a2 = -4.546062e-006  
a3 = 2.009215e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	640779.9	-1.5000	-0.0000
0.9999	571070.7	0.9999	0.0000
4.4999	487476.0	4.4999	-0.0000
8.0000	417526.3	7.9999	-0.0001
11.4999	358792.0	11.4999	0.0000
15.0000	309305.5	15.0000	-0.0000
18.4999	267475.2	18.4999	0.0000
21.9999	232000.8	22.0000	0.0001
25.4999	201824.4	25.4998	-0.0001
28.9999	176073.9	28.9999	-0.0000
32.4999	154035.9	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

