

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0515  
CALIBRATION DATE: 13-Jan-12

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -3.562883e-006  
a1 = 2.781934e-004  
a2 = -2.551246e-006  
a3 = 1.643093e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	705100.9	-1.5001	0.0000
0.9999	630081.6	0.9999	-0.0000
4.4999	539803.0	4.4999	-0.0000
7.9999	463957.4	7.9999	-0.0000
11.4999	400023.4	11.4999	-0.0000
14.9999	345952.9	14.9999	0.0000
18.4999	300080.4	18.4999	0.0000
21.9999	261041.7	21.9999	0.0000
25.4999	227719.7	25.4998	-0.0001
28.9999	199192.3	28.9999	-0.0000
32.4999	174700.5	32.4999	0.0000

Temperature ITS-90 =  $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$  (°C)

Residual = instrument temperature - bath temperature

