

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1624  
CALIBRATION DATE: 09-Dec-11

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 9.569688e-007  
a1 = 2.759413e-004  
a2 = -2.277475e-006  
a3 = 1.560281e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	696638.3	-1.5001	0.0000
0.9999	622642.9	0.9999	-0.0000
4.4999	533581.3	4.4999	-0.0000
7.9999	458741.9	7.9999	0.0000
11.4999	395642.8	11.4999	0.0000
14.9999	342267.0	14.9999	0.0000
18.4999	296972.2	18.4999	0.0000
21.9999	258415.9	21.9999	-0.0000
25.4999	225496.8	25.4999	-0.0000
28.9999	197307.8	28.9999	0.0000
32.4999	173100.8	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

