

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0607  
CALIBRATION DATE: 21-Nov-12

SBE 38 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 6.865131e-005  
a1 = 2.696486e-004  
a2 = -2.120991e-006  
a3 = 1.429407e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	747616.4	-1.49999	0.00001
1.00000	665974.7	0.99998	-0.00002
4.50000	568106.7	4.50000	0.00000
8.00000	486250.3	7.99998	-0.00002
11.50000	417545.2	11.50001	0.00001
15.00000	359684.4	15.00001	0.00001
18.50000	310794.9	18.50002	0.00002
22.00000	269354.0	21.99999	-0.00001
25.50000	234116.7	25.49999	-0.00001
29.00000	204063.8	28.99999	-0.00001
32.50000	178356.8	32.50001	0.00001

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

