

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0605  
CALIBRATION DATE: 30-Oct-12

SBE 38 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 1.724730e-005  
a1 = 2.750891e-004  
a2 = -2.524986e-006  
a3 = 1.535264e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	816088.3	-1.50002	-0.00002
0.99990	727249.4	0.99993	0.00003
4.50000	620700.0	4.50000	-0.00000
8.00000	531533.8	8.00000	0.00000
11.50010	456653.6	11.50007	-0.00003
15.00000	393561.6	15.00002	0.00002
18.50000	340225.9	18.49996	-0.00004
21.99990	294993.4	21.99996	0.00006
25.50000	256513.9	25.50004	0.00004
29.00000	223683.0	28.99992	-0.00008
32.50000	195586.0	32.50003	0.00003

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

