

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0607
CALIBRATION DATE: 25-Feb-14

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.744422e-005
a1 = 2.699536e-004
a2 = -2.146641e-006
a3 = 1.436591e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	747606.1	-1.49997	0.00003
1.00000	665968.2	0.99996	-0.00004
4.50000	568102.0	4.50000	-0.00000
8.00000	486247.1	7.99998	-0.00002
11.50010	417541.2	11.50010	0.00000
15.00000	359682.3	15.00003	0.00003
18.50000	310793.2	18.50005	0.00005
22.00000	269353.0	21.99999	-0.00001
25.50000	234116.1	25.49996	-0.00004
29.00000	204063.4	28.99995	-0.00005
32.50000	178355.9	32.50005	0.00005

$$\text{Temperature ITS-90} = 1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15 \text{ (}^\circ\text{C)}$$

Residual = instrument temperature - bath temperature

