

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0605
CALIBRATION DATE: 28-Feb-14

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.660387e-005
a1 = 2.728861e-004
a2 = -2.352623e-006
a3 = 1.490471e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	816063.9	-1.49997	0.00003
1.00000	727228.3	0.99997	-0.00003
4.50000	620684.8	4.49997	-0.00003
8.00000	531522.5	7.99996	-0.00004
11.50000	456644.7	11.50007	0.00007
15.00000	393555.0	15.00004	0.00004
18.50010	340220.3	18.50007	-0.00003
22.00000	294990.6	21.99999	-0.00001
25.50000	256513.2	25.49998	-0.00002
29.00000	223682.0	28.99998	-0.00002
32.50010	195585.1	32.50013	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

