

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0607
CALIBRATION DATE: 22-May-12

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.171901e-005
a1 = 2.712483e-004
a2 = -2.244186e-006
a3 = 1.461073e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	747610.7	-1.49999	0.00001
1.00000	665970.2	1.00000	0.00000
4.50000	568105.1	4.49997	-0.00003
8.00000	486249.2	7.99997	-0.00003
11.50000	417544.2	11.50003	0.00003
15.00000	359684.0	15.00002	0.00002
18.50000	310795.2	18.50001	0.00001
22.00000	269354.6	22.00000	-0.00000
25.50000	234117.6	25.50002	0.00002
29.00020	204064.5	29.00011	-0.00009
32.50010	178358.0	32.50015	0.00005

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

