

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0605
CALIBRATION DATE: 27-Sep-11

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.847425e-005
a1 = 2.724334e-004
a2 = -2.315742e-006
a3 = 1.480366e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50010	816088.3	-1.50009	0.00001
0.99990	727245.2	0.99991	0.00001
4.49990	620697.2	4.49987	-0.00003
7.99990	531531.2	7.99986	-0.00004
11.49990	456651.1	11.49993	0.00003
14.99990	393558.9	14.99993	0.00003
18.49990	340223.3	18.49992	0.00002
21.99990	294991.4	21.99992	0.00002
25.49990	256513.6	25.49989	-0.00001
28.99990	223682.6	28.99980	-0.00010
32.49990	195585.1	32.49997	0.00007

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

