

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0227
CALIBRATION DATE: 04-Dec-12

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.627963e-005
a1 = 2.762737e-004
a2 = -2.311665e-006
a3 = 1.573778e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	658405.0	-1.49995	0.00005
1.00000	588403.7	0.99995	-0.00005
4.50000	504159.9	4.49992	-0.00008
7.99990	433379.9	7.99992	0.00002
11.49990	373711.2	11.49997	0.00007
14.99990	323245.9	14.99995	0.00005
18.50000	280426.8	18.49998	-0.00002
22.00000	243983.8	21.99996	-0.00004
25.49990	212873.8	25.49989	-0.00001
29.00000	186236.9	28.99998	-0.00002
32.50000	163366.1	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

