

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0604
CALIBRATION DATE: 20-Nov-12

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 3.205303e-005
a1 = 2.684714e-004
a2 = -2.113029e-006
a3 = 1.409572e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	907151.6	-1.49996	0.00004
1.00000	807883.4	0.99995	-0.00005
4.50000	688915.3	4.49999	-0.00001
8.00000	589443.7	7.99998	-0.00002
11.50000	505980.5	11.50002	0.00002
15.00000	435713.2	15.00004	0.00004
18.50000	376360.3	18.50003	0.00003
22.00000	326066.0	21.99996	-0.00004
25.49980	283315.4	25.49979	-0.00001
28.99990	246863.3	28.99986	-0.00004
32.50000	215691.4	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

