

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0380
CALIBRATION DATE: 14-Nov-12

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.090267e-005
a1 = 2.721665e-004
a2 = -2.324585e-006
a3 = 1.466250e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50000	893671.6	-1.49998	0.00002
1.00000	796187.8	0.99998	-0.00002
4.50000	679309.5	4.49997	-0.00003
8.00000	581531.7	7.99999	-0.00001
11.50000	499449.1	11.50002	0.00002
14.99990	430310.7	14.99997	0.00007
18.50010	371880.1	18.50005	-0.00005
22.00000	322345.0	21.99999	-0.00001
25.50000	280217.8	25.50001	0.00001
29.00000	244283.9	28.99995	-0.00005
32.50000	213540.7	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

