

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0607
CALIBRATION DATE: 14-Feb-14

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.659550e-005
a1 = 2.701272e-004
a2 = -2.158252e-006
a3 = 1.439125e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	747603.8	-1.5000	0.0000
1.0000	665965.6	1.0000	-0.0000
4.5000	568100.2	4.5000	-0.0000
8.0000	486244.1	8.0000	0.0000
11.5000	417540.9	11.5000	0.0000
15.0000	359681.3	15.0000	-0.0000
18.5000	310792.3	18.5000	0.0000
22.0000	269352.0	22.0000	0.0000
25.5000	234115.6	25.5000	-0.0000
29.0000	204063.3	28.9999	-0.0001
32.5000	178356.2	32.5000	0.0000

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

n = instrument output

