

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1635
CALIBRATION DATE: 13-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.100026e-004
a1 = 3.075980e-004
a2 = -4.445039e-006
a3 = 2.056027e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	841285.7	-1.5000	0.0000
1.0000	752416.1	0.9999	-0.0001
4.5000	645377.2	4.5000	-0.0000
8.0000	555362.3	8.0000	-0.0000
11.5000	479409.4	11.5001	0.0001
15.0000	415115.2	15.0000	0.0000
18.5000	360514.4	18.5000	0.0000
22.0000	314003.0	22.0000	0.0000
25.5000	274263.7	25.4999	-0.0001
29.0000	240209.5	29.0000	-0.0000
32.5001	210944.0	32.5001	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

