

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0678
CALIBRATION DATE: 16-Aug-13

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.243613e-005
a1 = 2.760424e-004
a2 = -2.490041e-006
a3 = 1.562300e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	676944.4	1.0000	0.0000
4.5000	578648.2	4.5000	-0.0000
15.0000	368492.4	15.0000	0.0000
18.5000	318991.7	18.5000	0.0000
24.0000	255796.7	24.0000	0.0000
29.0000	210546.4	29.0000	-0.0000
32.5000	184328.6	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

