

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0470
CALIBRATION DATE: 10-Dec-13

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -7.615425e-005
a1 = 2.905028e-004
a2 = -3.518196e-006
a3 = 1.841074e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	705719.0	1.0000	0.0000
4.5000	603963.3	4.5000	-0.0000
15.0000	385917.9	15.0000	-0.0000
18.5000	334434.5	18.5001	0.0001
24.0000	268622.4	24.0000	-0.0000
29.0000	221424.8	28.9999	-0.0001
32.5000	194045.2	32.5001	0.0001

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

