

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0822
CALIBRATION DATE: 17-Apr-12

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -4.039459×10^{-4}

a1 = 3.552887×10^{-4}

a2 = -8.004825×10^{-6}

a3 = 2.986529×10^{-7}

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	681048.6	1.0000	-0.0000
4.5000	584650.1	4.5000	0.0000
15.0000	376956.8	14.9998	-0.0002
18.5000	327622.0	18.5003	0.0003
24.0000	264356.1	24.0000	-0.0000
29.0000	218806.6	28.9998	-0.0002
32.5000	192300.3	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

