

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0826
CALIBRATION DATE: 17-Apr-12

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -8.570175×10^{-5}

a1 = 2.930400×10^{-4}

a2 = -3.791294×10^{-6}

a3 = 1.890418×10^{-7}

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	737268.7	1.0000	0.0000
4.5000	630364.6	4.4999	-0.0001
15.0000	401690.0	15.0000	0.0000
18.5000	347801.7	18.5000	0.0000
24.0000	278989.7	24.0000	-0.0000
29.0000	229703.9	29.0000	-0.0000
32.5000	201142.7	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

