

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0122
CALIBRATION DATE: 10-Mar-12

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.370164e-004
a1 = 3.115364e-004
a2 = -4.766046e-006
a3 = 2.130368e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	788598.8	0.9999	0.0000
4.4999	676308.2	4.4999	0.0000
14.9999	434814.6	14.9998	-0.0001
18.4999	377564.2	18.5000	0.0001
24.0000	304211.8	24.0000	-0.0000
29.0000	251463.2	29.0000	-0.0000
32.5000	220797.9	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

