

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0047
CALIBRATION DATE: 02-Dec-12

SBE 48 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.551689e-005
a1 = 2.684702e-004
a2 = -2.057112e-006
a3 = 1.393193e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	837174.7	1.0001	0.0001
4.5000	714242.7	4.4999	-0.0001
15.0000	452358.9	15.0001	0.0001
18.5000	390914.1	18.5001	0.0001
24.0000	312646.6	23.9999	-0.0001
29.0000	256744.0	28.9999	-0.0001
32.5000	224418.9	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

