

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0055
CALIBRATION DATE: 16-May-13

SBE 48 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 8.112936e-005
a1 = 2.673837e-004
a2 = -1.879548e-006
a3 = 1.380086e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	635527.5	1.0000	0.0000
4.5000	542493.4	4.5000	-0.0000
15.0000	344120.1	15.0000	-0.0000
18.5000	297525.2	18.5001	0.0001
24.0000	238139.0	23.9999	-0.0001
29.0000	195690.5	29.0000	0.0000
32.5000	171133.0	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

