

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0019
CALIBRATION DATE: 24-Mar-12

SBE 48 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.976688e-004

a1 = 3.072897e-004

a2 = -4.398809e-006

a3 = 2.053060e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	713694.7	1.0000	0.0000
4.5000	612282.7	4.4999	-0.0001
15.0000	394041.7	15.0001	0.0001
18.5000	342273.4	18.5000	0.0000
24.0000	275914.3	24.0000	-0.0000
29.0000	228172.6	28.9999	-0.0001
32.5000	200406.8	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

