

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0021
CALIBRATION DATE: 27-Feb-15

SBE 48 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.417015e-004
a1 = 2.952804e-004
a2 = -3.456389e-006
a3 = 1.798628e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	706583.3	0.9999	-0.0001
4.5000	606004.3	4.5002	0.0002
15.0000	389722.7	14.9998	-0.0002
18.5000	338444.0	18.5000	-0.0000
24.0000	272735.4	24.0000	-0.0000
29.0000	225475.2	29.0003	0.0003
32.5000	198001.9	32.4998	-0.0002

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

n = instrument output

