

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0453
CALIBRATION DATE: 11-May-13

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -4.544113e-005
a1 = 2.814290e-004
a2 = -3.031901e-006
a3 = 1.633976e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	850136.8	1.0000	0.0000
4.5000	725264.0	4.5000	-0.0000
15.0000	459280.6	15.0000	-0.0000
18.4999	396881.2	18.5000	0.0001
24.0000	317401.9	24.0000	-0.0000
29.0000	260643.1	28.9999	-0.0001
32.5000	227825.4	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

