

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0088
CALIBRATION DATE: 03-Jun-09

SBE 49 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 8.269316e-004

a1 = 2.826027e-004

a2 = -2.139151e-006

a3 = 1.954824e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	748461.484	1.0000	-0.0000
4.5000	663379.984	4.5000	0.0000
15.0000	446831.533	15.0001	0.0001
18.5001	387316.893	18.4999	-0.0002
24.0000	305533.943	24.0000	0.0000
29.0000	242494.811	29.0002	0.0002
32.5001	204079.623	32.5000	-0.0001

$MV = (n - 524288) / 1.6e+007$

$R = (MV * 2.295e+010 + 9.216e+008) / (6.144e+004 - MV * 5.3e+005)$

Temperature ITS-90 = $1 / \{a_0 + a_1[\ln(R)] + a_2[\ln^2(R)] + a_3[\ln^3(R)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

