

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1421
CALIBRATION DATE: 09-Dec-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.165781e-005
a1 = 2.657357e-004
a2 = -1.773660e-006
a3 = 1.362836e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	895278.8	-1.5001	0.0000
0.9999	798512.8	0.9999	-0.0000
4.4999	682336.9	4.4999	-0.0000
7.9999	584992.6	7.9999	0.0000
11.4999	503148.5	11.4999	0.0000
14.9999	434105.0	14.9999	0.0000
18.4999	375671.5	18.4999	0.0000
21.9999	326061.0	21.9999	-0.0000
25.4999	283811.3	25.4999	-0.0000
28.9999	247722.5	28.9999	-0.0000
32.4999	216807.1	32.4999	0.0000

Temperature ITS-90 = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

