

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: 1636
CALIBRATION DATE: 09-Dec-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.873165e-004
a1 = 3.038725e-004
a2 = -4.177030e-006
a3 = 1.994231e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	824553.9	-1.5001	0.0000
0.9999	737444.1	0.9999	-0.0000
4.4999	632527.5	4.4999	-0.0000
7.9999	544296.8	7.9999	0.0000
11.4999	469851.4	11.4999	0.0000
14.9999	406831.1	14.9999	0.0000
18.4999	353312.9	18.4999	0.0000
21.9999	307724.2	21.9999	0.0000
25.4999	268773.4	25.4998	-0.0001
28.9999	235394.9	28.9999	-0.0000
32.4999	206710.5	32.4999	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

