

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: 0807
CALIBRATION DATE: 09-Dec-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.845882e-005

a1 = 2.751134e-004

a2 = -2.356084e-006

a3 = 1.581089e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	795913.3	-1.5001	0.0000
0.9999	711174.3	0.9999	-0.0000
4.4999	609208.8	4.4999	-0.0000
7.9999	523552.2	7.9999	-0.0000
11.4999	451355.2	11.4999	0.0000
14.9999	390302.8	14.9999	0.0000
18.4999	338511.4	18.4999	0.0000
21.9999	294439.8	21.9999	-0.0000
25.4999	256824.2	25.4999	-0.0000
28.9999	224625.1	28.9998	-0.0001
32.4999	196983.0	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

