

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: 0570
CALIBRATION DATE: 08-Dec-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -8.812357e-006
a1 = 2.773477e-004
a2 = -2.502480e-006
a3 = 1.623417e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	735505.2	-1.5001	0.0000
0.9999	657186.6	0.9999	-0.0000
4.4999	562949.5	4.4999	-0.0000
7.9999	483787.9	7.9999	0.0000
11.4999	417068.2	11.4999	-0.0000
14.9999	360648.2	15.0000	0.0001
18.4999	312789.8	18.4999	-0.0000
21.9999	272064.3	21.9999	0.0000
25.4999	237307.4	25.4998	-0.0001
28.9999	207554.5	28.9999	-0.0000
32.4999	182014.2	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

