

# 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: 5286

CALIBRATION DATE: 03-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -7.744552e-005

a1 = 3.033229e-004

a2 = -4.258321e-006

a3 = 1.945202e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	639473.2	-1.5000	-0.0000
0.9999	570330.8	0.9999	0.0000
4.4999	487344.1	4.4999	-0.0000
8.0000	417833.1	7.9999	-0.0001
11.4999	359409.0	11.4999	0.0000
15.0000	310136.0	15.0000	0.0000
18.4999	268446.4	18.4999	0.0000
21.9999	233058.2	21.9999	0.0000
25.4999	202925.9	25.4999	-0.0000
28.9999	177190.9	28.9999	-0.0000
32.4999	155146.3	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

n = instrument output

