

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: 1778
CALIBRATION DATE: 05-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.149303e-005
a1 = 2.739485e-004
a2 = -2.201985e-006
a3 = 1.512192e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	789777.9	-1.5001	0.0000
0.9999	705467.9	0.9999	-0.0000
4.5000	604064.8	4.4999	-0.0001
7.9999	518924.1	8.0000	0.0001
11.4999	447198.3	11.4999	0.0000
15.0000	386572.0	15.0000	-0.0000
18.4999	335165.0	18.5000	0.0001
22.0000	291438.5	21.9999	-0.0001
25.4999	254132.3	25.4999	0.0000
29.0000	222209.5	28.9999	-0.0001
32.4999	194814.6	32.5000	0.0001

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

