

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: 0562
CALIBRATION DATE: 05-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 5.706790e-007
a1 = 2.788644e-004
a2 = -2.562725e-006
a3 = 1.658280e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	671147.4	-1.4999	0.0001
1.0000	599918.2	0.9999	-0.0001
4.5000	514169.0	4.4999	-0.0001
8.0000	442098.1	8.0000	-0.0000
11.5000	381321.7	11.5001	0.0001
14.9999	329904.5	15.0000	0.0001
18.5000	286265.5	18.5000	-0.0000
22.0000	249113.8	22.0000	-0.0000
25.5000	217390.6	25.4999	-0.0001
29.0000	190222.7	29.0000	-0.0000
32.5000	166890.1	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

