

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: 1802
CALIBRATION DATE: 13-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.508610e-005
a1 = 2.786607e-004
a2 = -2.511563e-006
a3 = 1.609979e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	719694.8	-1.4999	0.0001
1.0000	643102.0	1.0000	-0.0000
4.5000	550938.5	4.4999	-0.0001
8.0000	473516.2	8.0000	-0.0000
11.5000	408259.0	11.5001	0.0001
15.0000	353076.4	15.0001	0.0001
18.5000	306263.8	18.5000	-0.0000
22.0000	266426.6	22.0000	-0.0000
25.5000	232423.6	25.5000	-0.0000
29.0000	203315.0	29.0000	-0.0000
32.5000	178325.0	32.5000	0.0000

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

