

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: 0812
CALIBRATION DATE: 04-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.710624e-007
a1 = 2.752338e-004
a2 = -2.462810e-006
a3 = 1.488216e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	861885.8	-1.5000	0.0000
1.0000	767949.3	1.0000	-0.0000
4.5000	655316.7	4.5000	-0.0000
8.0000	561083.7	8.0000	-0.0000
11.5000	481968.3	11.5000	0.0000
14.9999	415323.6	15.0000	0.0001
18.5000	358996.1	18.5000	0.0000
22.0000	311237.4	22.0000	-0.0000
25.5000	270616.8	25.4999	-0.0001
29.0000	235962.3	29.0000	-0.0000
32.5000	206310.5	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

