

# 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: 0568  
CALIBRATION DATE: 05-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -1.870800e-005  
a1 = 2.777465e-004  
a2 = -2.453513e-006  
a3 = 1.625278e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	723635.6	-1.4999	0.0001
1.0000	646992.1	1.0000	-0.0000
4.5000	554699.8	4.4999	-0.0001
8.0000	477104.2	8.0000	-0.0000
11.5000	411647.3	11.5000	0.0000
14.9999	356252.5	15.0000	0.0001
18.5000	309222.3	18.5000	0.0000
22.0000	269172.1	22.0000	-0.0000
25.5000	234963.5	25.4999	-0.0001
29.0000	205658.2	28.9999	-0.0001
32.5000	180482.1	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

