

# 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: 5474  
CALIBRATION DATE: 14-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -1.279786e-004  
a1 = 3.098865e-004  
a2 = -4.596651e-006  
a3 = 2.039926e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	640816.1	-1.5000	0.0000
1.0000	572105.6	1.0000	-0.0000
4.5000	489539.8	4.5000	-0.0000
8.0000	420288.4	8.0000	0.0000
11.5000	362005.6	11.5000	0.0000
15.0000	312788.3	15.0000	0.0000
18.5000	271091.6	18.5000	0.0000
22.0000	235653.8	22.0000	-0.0000
25.5000	205442.0	25.4999	-0.0001
29.0000	179607.4	29.0000	0.0000
32.5000	157452.7	32.5000	0.0000

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

