

# 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: 0581  
CALIBRATION DATE: 11-Feb-14

SBE 39 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 3.803391e-005

a1 = 2.687825e-004

a2 = -2.084371e-006

a3 = 1.494333e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	798955.3	-1.5000	0.0000
1.0000	712880.4	1.0000	-0.0000
4.5000	609475.3	4.5000	-0.0000
8.0000	522776.9	8.0000	-0.0000
11.5000	449837.7	11.5000	0.0000
15.0000	388271.9	15.0000	0.0000
18.5000	336138.8	18.5001	0.0001
22.0000	291855.7	22.0000	-0.0000
25.5000	254125.0	25.4999	-0.0001
29.0000	221881.8	29.0000	-0.0000
32.5000	194248.4	32.5001	0.0001

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

