

# 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: 2322  
CALIBRATION DATE: 04-Feb-14

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -1.354447e-004

a1 = 3.144430e-004

a2 = -5.079140e-006

a3 = 2.189600e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	566291.1	1.0000	-0.0000
4.5000	484450.4	4.5001	0.0001
15.0000	309303.5	15.0000	-0.0000
18.5000	267999.6	18.4999	-0.0001
24.0000	215227.6	24.0001	0.0001
29.0000	177409.2	29.0000	-0.0000
32.4999	155481.6	32.4999	-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

Date, Delta T (mdeg C)

