

# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1853  
CALIBRATION DATE: 28-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -8.553239e-006  
a1 = 2.788223e-004  
a2 = -2.559576e-006  
a3 = 1.648862e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0001	623159.3	1.0001	0.0000
4.5002	534044.9	4.5002	-0.0000
15.0000	342587.6	15.0000	0.0000
18.4999	297253.4	18.4999	-0.0000
24.0000	239199.0	24.0000	0.0000
29.0000	197487.8	28.9999	-0.0001
32.5000	173254.6	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

