

# 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: 2357  
CALIBRATION DATE: 19-Aug-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -1.038618e-004  
a1 = 3.005739e-004  
a2 = -4.248318e-006  
a3 = 2.015956e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	663537.5	1.0000	-0.0000
4.4999	567698.5	4.4999	0.0000
15.0000	362466.2	14.9998	-0.0002
18.5000	314036.8	18.5002	0.0002
24.0000	252159.0	24.0000	-0.0000
29.0000	207800.8	29.0000	-0.0000
32.5000	182077.6	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

