

# 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: 2024  
CALIBRATION DATE: 10-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -2.479757e-005  
a1 = 2.804769e-004  
a2 = -2.819586e-006  
a3 = 1.696020e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	687849.6	1.0000	-0.0000
4.5000	588876.7	4.5000	0.0000
15.0000	376633.6	15.0000	-0.0000
18.5000	326476.8	18.5000	0.0000
24.0000	262328.8	24.0000	0.0000
29.0000	216301.6	29.0000	-0.0000
32.4999	189591.6	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

