

# 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: 2324  
CALIBRATION DATE: 22-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -1.111787e-004  
a1 = 3.095952e-004  
a2 = -5.477887e-006  
a3 = 2.429552e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	681171.5	1.0000	0.0000
4.5000	582321.9	4.5000	-0.0000
15.0000	370790.9	15.0000	0.0000
18.5000	320933.9	18.5000	-0.0000
24.0000	257271.7	24.0000	0.0000
29.0000	211685.5	28.9999	-0.0001
32.5000	185274.6	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

