

# 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: 2026  
CALIBRATION DATE: 20-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 6.065968e-006  
a1 = 2.733899e-004  
a2 = -2.409736e-006  
a3 = 1.572240e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	737271.6	1.0000	-0.0000
4.5000	630446.1	4.5000	0.0000
15.0000	401851.1	15.0000	0.0000
18.5001	347957.2	18.5000	-0.0001
24.0000	279119.3	24.0001	0.0001
29.0000	229805.4	28.9999	-0.0001
32.4999	201221.5	32.4999	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

