

# 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: 3979  
CALIBRATION DATE: 05-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 2.391588e-006  
a1 = 2.717844e-004  
a2 = -1.963998e-006  
a3 = 1.458841e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	671129.4	1.0001	0.0001
4.4999	574954.6	4.4998	-0.0001
15.0000	368474.5	15.0001	0.0001
18.5000	319622.8	18.5001	0.0001
24.0000	257099.4	23.9999	-0.0001
29.0001	212191.5	29.0001	0.0000
32.5000	186113.6	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

