

# 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: 2328  
CALIBRATION DATE: 20-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -2.160223e-004  
a1 = 3.299321e-004  
a2 = -7.029025e-006  
a3 = 2.805064e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	730575.1	1.0000	-0.0000
4.5000	624416.9	4.5000	0.0000
15.0000	397345.4	14.9999	-0.0001
18.5000	343848.9	18.5000	0.0000
24.0000	275564.9	24.0000	-0.0000
29.0000	226684.5	29.0001	0.0001
32.5000	198376.0	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

