



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

+1 425-643-9866  
seabird@seabird.com  
www.seabird.com

SENSOR SERIAL NUMBER: 2329  
CALIBRATION DATE: 27-Feb-18

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.684691e-004  
a1 = 4.249364e-004  
a2 = -1.577254e-005  
a3 = 5.524475e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	716882.8	1.0000	0.0000
4.5000	614984.0	4.4999	-0.0001
15.0000	394869.5	15.0000	0.0000
18.5000	342526.1	18.5001	0.0001
24.0000	275403.6	23.9998	-0.0002
29.0000	227115.6	29.0002	0.0002
32.5000	199056.7	32.4999	-0.0001

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

