



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: 2332  
CALIBRATION DATE: 24-Apr-19

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.349192e-005  
a1 = 2.882197e-004  
a2 = -4.049988e-006  
a3 = 2.138575e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	710198.8	1.0000	-0.0000
4.5000	607643.1	4.5000	0.0000
15.0000	387756.3	14.9999	-0.0001
18.5000	335818.9	18.5001	0.0001
23.9999	269434.4	23.9998	-0.0001
29.0000	221833.2	29.0001	0.0001
32.5000	194232.7	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

