



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

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

SENSOR SERIAL NUMBER: 16240
CALIBRATION DATE: 20-Mar-25

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.163093e-004
a1 = 3.177239e-004
a2 = -4.739961e-006
a3 = 2.098255e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	564641.6	1.0000	0.0000
4.5000	484907.6	4.5000	-0.0000
14.9999	313094.1	14.9999	0.0000
18.4999	272271.8	18.4999	0.0000
24.0000	219889.3	24.0000	-0.0000
29.0000	182155.2	29.0000	-0.0000
32.5001	160185.6	32.5001	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

