



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

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

SENSOR SERIAL NUMBER: 16242
CALIBRATION DATE: 06-Mar-25

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.744348e-004
a1 = 3.107011e-004
a2 = -4.275645e-006
a3 = 1.984248e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	557532.8	1.0001	0.0001
4.4999	478610.9	4.4997	-0.0002
14.9999	308648.3	15.0001	0.0002
18.4999	268303.3	18.4997	-0.0002
24.0000	216548.1	24.0000	0.0000
29.0000	179287.6	28.9999	-0.0001
32.5000	157602.5	32.5001	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

