



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

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

SENSOR SERIAL NUMBER: 21145
CALIBRATION DATE: 04-Mar-25

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.742018e-004
a1 = 3.189523e-004
a2 = -5.228975e-006
a3 = 2.204717e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	569744.7	0.9999	0.0000
4.5000	487766.0	4.4999	-0.0001
14.9999	312111.8	15.0000	0.0001
18.4999	270633.7	18.4999	0.0000
24.0000	217599.8	23.9999	-0.0001
29.0000	179553.9	29.0000	0.0000
32.5000	157477.9	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

