



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

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

SENSOR SERIAL NUMBER: 1527
CALIBRATION DATE: 05-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.461675e-004
a1 = 3.197007e-004
a2 = -5.577689e-006
a3 = 2.277196e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	582419.7	1.0000	-0.0000
4.5000	497415.0	4.5000	0.0000
15.0000	316074.1	15.0000	0.0000
18.5000	273457.6	18.4999	-0.0001
24.0000	219116.2	24.0000	0.0000
29.0000	180259.1	29.0001	0.0001
32.5000	157770.8	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

