



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

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

SENSOR SERIAL NUMBER: 1525
CALIBRATION DATE: 10-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.262177e-004
a1 = 2.966480e-004
a2 = -3.860849e-006
a3 = 1.969034e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	701482.3	1.0001	0.0001
4.5000	601537.4	4.4998	-0.0002
14.9999	386539.0	15.0002	0.0003
18.5000	335576.0	18.5000	-0.0000
24.0000	270274.4	23.9998	-0.0002
29.0000	223316.6	29.0000	-0.0000
32.5000	196021.2	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

