



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

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

SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 30-Sep-22

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.384369e-004
a1 = 3.155299e-004
a2 = -5.156698e-006
a3 = 2.198051e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	566750.0	1.0001	0.0001
4.5000	484718.0	4.4999	-0.0001
15.0000	309239.0	15.0000	0.0000
18.5000	267880.0	18.5002	0.0002
24.0000	215063.0	23.9998	-0.0002
29.0000	177220.0	29.0000	-0.0000
32.5000	155285.0	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

