



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

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

SENSOR SERIAL NUMBER: 12120
CALIBRATION DATE: 09-Sep-21

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.796995e-005
a1 = 3.008217e-004
a2 = -3.982804e-006
a3 = 1.874016e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	573929.0	1.0000	0.0000
4.4999	490710.0	4.4999	-0.0000
15.0000	312812.0	15.0000	0.0000
18.5000	270911.0	18.5000	0.0000
24.0000	217415.0	24.0000	-0.0000
29.0001	179102.0	29.0000	-0.0001
32.5000	156900.0	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

