



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

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

SENSOR SERIAL NUMBER: 3769
CALIBRATION DATE: 08-Jun-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.233866e-005
a1 = 2.735894e-004
a2 = -2.019961e-006
a3 = 1.498849e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	599687.4	1.0000	0.0000
4.5000	514160.1	4.5000	-0.0000
15.0000	330278.7	15.0001	0.0001
18.5000	286704.2	18.4999	-0.0001
24.0000	230876.0	24.0001	0.0001
29.0000	190740.0	29.0000	-0.0000
32.5000	167410.4	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

