



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

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

SENSOR SERIAL NUMBER: 0475
CALIBRATION DATE: 14-Nov-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -9.022919e-005
a1 = 2.972472e-004
a2 = -4.129909e-006
a3 = 1.984669e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	703605.8	0.9999	-0.0001
4.4999	601530.9	4.5000	0.0001
15.0000	383228.4	14.9999	-0.0001
18.4999	331790.5	18.4999	-0.0000
23.9999	266111.0	24.0002	0.0003
28.9999	219082.1	28.9997	-0.0002
32.5000	191826.2	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

