



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

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

SENSOR SERIAL NUMBER: 0409
CALIBRATION DATE: 25-Sep-22

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -9.495291e-005
a1 = 2.998134e-004
a2 = -4.149015e-006
a3 = 2.028008e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	621536.4	1.0001	0.0001
4.5000	532332.6	4.4999	-0.0001
15.0000	340901.6	15.0001	0.0001
18.5000	295635.2	18.5001	0.0001
24.0000	237720.5	24.0000	-0.0000
29.0000	196145.5	28.9998	-0.0002
32.5000	172007.1	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

