



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

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

SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 06-Oct-22

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.521439e-004
a1 = 3.099989e-004
a2 = -4.592148e-006
a3 = 2.073064e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	838132.0	1.0001	0.0001
4.5000	718975.6	4.4999	-0.0001
15.0000	462587.9	15.0001	0.0001
18.5000	401783.0	18.5001	0.0001
24.0000	323850.2	23.9999	-0.0001
29.0000	267788.3	28.9999	-0.0001
32.5000	235186.2	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

