



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

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

SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 12-Sep-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.198130e-007
a1 = 2.709902e-004
a2 = -1.889988e-006
a3 = 1.443513e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	677929.8	1.0000	0.0000
4.4999	580912.3	4.4998	-0.0001
14.9999	372539.9	14.9998	-0.0001
18.4999	323213.4	18.5001	0.0002
24.0000	260067.5	24.0000	-0.0000
29.0000	214703.4	28.9998	-0.0002
32.5001	188348.1	32.5002	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

