



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: 28-Aug-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -9.474468e-005
a1 = 2.933058e-004
a2 = -3.633873e-006
a3 = 1.897683e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	677903.2	1.0000	0.0000
4.5000	580898.4	4.4999	-0.0001
15.0000	372534.6	14.9999	-0.0001
18.4999	323208.9	18.5001	0.0002
24.0000	260065.0	24.0000	-0.0000
29.0000	214704.0	28.9998	-0.0002
32.5002	188351.6	32.5003	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

