



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

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

SENSOR SERIAL NUMBER: 3762
CALIBRATION DATE: 04-Jun-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.074481e-006
a1 = 2.725764e-004
a2 = -1.996700e-006
a3 = 1.478838e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	642002.5	1.0001	0.0001
4.5000	550183.4	4.4999	-0.0001
15.0000	352934.7	15.0001	0.0001
18.5000	306235.5	18.5001	0.0001
24.0000	246442.8	23.9999	-0.0001
29.0000	203480.0	28.9999	-0.0001
32.5000	178519.7	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

