



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

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

SENSOR SERIAL NUMBER: 0473
CALIBRATION DATE: 25-Sep-22

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.170332e-004
a1 = 2.971805e-004
a2 = -4.125296e-006
a3 = 1.965447e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	783504.8	1.0000	-0.0000
4.5000	669780.8	4.5001	0.0001
15.0000	426606.6	14.9999	-0.0001
18.5000	369317.4	18.5000	-0.0000
24.0000	296176.1	24.0002	0.0002
29.0000	243807.5	28.9998	-0.0002
32.5000	213462.1	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

