



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

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

SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 24-Nov-20

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.450564e-004
a1 = 1.942742e-004
a2 = 4.102889e-006
a3 = -1.226035e-008

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	642689.0	1.0001	0.0002
4.4999	550487.3	4.4995	-0.0004
15.0000	352642.9	14.9998	-0.0002
18.5000	305841.8	18.5007	0.0007
24.0000	245965.1	24.0003	0.0003
29.0000	202971.1	28.9987	-0.0013
32.5001	177977.1	32.5008	0.0007

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

