



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

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

SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 07-Mar-18

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.246564e-006
a1 = 2.733120e-004
a2 = -2.248226e-006
a3 = 1.537668e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	718647.2	1.0000	-0.0000
4.5000	615230.9	4.5001	0.0001
15.0000	393480.7	15.0000	0.0000
18.5001	341080.5	18.5001	-0.0000
24.0000	274066.3	23.9999	-0.0001
28.9999	225977.5	29.0001	0.0002
32.5000	198074.5	32.4999	-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

