



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

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

SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 18-Nov-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.719316e-005
a1 = 2.528170e-004
a2 = -4.668151e-007
a3 = 1.073695e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	655975.2	1.0001	0.0001
4.5000	562043.9	4.4998	-0.0002
15.0000	360340.8	15.0002	0.0002
18.5000	312609.6	18.5001	0.0001
24.0000	251506.7	23.9998	-0.0002
29.0000	207608.4	29.0000	0.0000
32.5000	182110.8	32.5000	0.0000

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

