



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: 15-Sep-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.699680e-006
a1 = 2.722777e-004
a2 = -1.995995e-006
a3 = 1.473918e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	655983.3	1.0000	0.0000
4.5000	562052.1	4.5000	-0.0000
15.0000	360349.5	15.0000	-0.0000
18.5000	312613.0	18.5000	0.0000
23.9999	251505.5	24.0000	0.0001
29.0000	207610.7	28.9999	-0.0001
32.5000	182113.3	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

