



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: 10-Oct-19

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 5.309910e-005
a1 = 2.612967e-004
a2 = -1.166224e-006
a3 = 1.265039e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	656007.0	1.0000	0.0000
4.5000	562074.4	4.5000	-0.0000
15.0000	360365.2	15.0000	-0.0000
18.5000	312624.0	18.5001	0.0001
24.0000	251511.6	23.9998	-0.0002
29.0000	207607.1	29.0001	0.0001
32.5000	182106.9	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

