



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

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

SENSOR SERIAL NUMBER: 1804
CALIBRATION DATE: 04-May-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.499639e-004
a1 = 3.093161e-004
a2 = -5.091104e-006
a3 = 2.277985e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	703349.0	1.0000	-0.0000
4.4999	601986.6	4.4999	0.0000
15.0000	384696.5	15.0000	-0.0000
18.5000	333375.5	18.5000	0.0000
24.0000	267763.6	24.0000	0.0000
29.0000	220708.0	29.0000	-0.0000
32.5001	193410.1	32.5001	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

