



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

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

SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 10-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.515143e-004
a1 = 3.212180e-004
a2 = -5.678741e-006
a3 = 2.318723e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	569247.0	1.0000	0.0000
4.5000	486393.4	4.5000	-0.0000
14.9999	309475.4	15.0000	0.0001
18.5000	267859.5	18.4998	-0.0002
24.0000	214762.7	24.0001	0.0001
29.0000	176775.4	28.9999	-0.0001
32.5000	154776.9	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

