



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

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

SENSOR SERIAL NUMBER: 3765
CALIBRATION DATE: 30-May-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.010059e-007
a1 = 2.733464e-004
a2 = -2.121355e-006
a3 = 1.496235e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	670964.1	1.0002	0.0002
4.4999	574627.1	4.4996	-0.0003
14.9999	367902.5	15.0002	0.0003
18.5000	319031.3	18.4999	-0.0001
24.0000	256498.4	24.0000	-0.0000
29.0000	211610.9	28.9998	-0.0002
32.5000	185547.9	32.5002	0.0002

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

