



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

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

SENSOR SERIAL NUMBER: 2333
CALIBRATION DATE: 07-May-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -9.209914e-005
a1 = 3.060456e-004
a2 = -5.316626e-006
a3 = 2.387463e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	704138.0	1.0001	0.0001
4.5000	601569.8	4.4998	-0.0002
14.9999	382306.6	15.0000	0.0001
18.4999	330692.6	18.4999	0.0000
23.9999	264834.5	23.9999	0.0000
29.0000	217715.8	28.9998	-0.0002
32.5000	190433.5	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

