



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

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

SENSOR SERIAL NUMBER: 9309
CALIBRATION DATE: 15-Oct-19

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.852342e-005
a1 = 3.032808e-004
a2 = -4.383577e-006
a3 = 1.982889e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	579921.0	1.0001	0.0001
4.5000	495204.0	4.4999	-0.0001
15.0000	314499.0	15.0001	0.0001
18.5000	272042.0	18.5000	0.0000
23.9999	217915.0	23.9999	-0.0000
29.0000	179215.0	28.9999	-0.0001
32.5000	156818.0	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

