



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

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

SENSOR SERIAL NUMBER: 2002
CALIBRATION DATE: 15-Dec-17

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.472352e-004
a1 = 3.172465e-004
a2 = -5.955013e-006
a3 = 2.495048e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	689358.3	1.0001	0.0001
4.5000	588851.4	4.4999	-0.0001
15.0000	374143.8	14.9999	-0.0001
18.5000	323623.9	18.5004	0.0004
24.0000	259200.2	23.9996	-0.0004
29.0000	213106.0	29.0002	0.0002
32.5000	186430.4	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

