



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

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

SENSOR SERIAL NUMBER: 0417
CALIBRATION DATE: 01-Oct-22

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.116054e-005
a1 = 2.823548e-004
a2 = -2.991352e-006
a3 = 1.695204e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	693377.8	1.0000	-0.0000
4.5000	592760.8	4.5000	0.0000
15.0000	377596.7	14.9999	-0.0001
18.5000	326901.1	18.5000	0.0000
24.0000	262175.0	24.0000	0.0000
29.0000	215821.5	29.0000	0.0000
32.5000	188963.0	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

