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

SENSOR SERIAL NUMBER: 4078 CALIBRATION DATE: 07-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.462706e-005 a1 = 2.710848e-004 a2 = -1.948059e-006 a3 = 1.443645e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	666515.3	0.9999	0.0000
4.4999	570655.3	4.4999	-0.0000
14.9999	365103.5	14.9999	-0.0000
18.5000	316526.7	18.5001	0.0001
24.0000	254399.4	24.0000	-0.0000
29.0000	209815.4	29.0000	-0.0000
32.5000	183939.2	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual (${}^{\circ}C$) = instrument temperature - bath temperature

