Sea-Bird Scientific 13431 NE 20th Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 2355 SBE 37 TEMPERATURE CALIBRATION DATA CALIBRATION DATE: 08-Jan-25 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.270059e-004 a1 = 2.953780e-004 a2 = -3.935853e-006 a3 = 1.922271e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	811452.3	0.9999	0.0000
4.5000	694126.8	4.4999	-0.0001
14.9999	442937.5	15.0000	0.0001
18.4999	383685.5	18.4999	-0.0000
23.9999	307979.4	23.9999	-0.0000
29.0000	253720.3	29.0000	-0.0000
32.5001	222261.0	32.5001	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

