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

SENSOR SERIAL NUMBER: 2024 CALIBRATION DATE: 14-Apr-23

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -1.326739e-005 a1 = 2.778459e-004 a2 = -2.620509e-006 a3 = 1.646001e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	687881.4	0.9999	-0.0001
4.4999	588907.1	4.5000	0.0001
15.0000	376657.6	15.0000	-0.0000
18.5000	326500.6	18.4999	-0.0001
24.0000	262346.7	24.0001	0.0001
29.0000	216316.2	29.0000	0.0000
32.5000	189604.0	32.4999	-0.0001

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

