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

SENSOR SERIAL NUMBER: 3775 CALIBRATION DATE: 03-May-23 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.029502e-006 a1 = 2.783463e-004 a2 = -2.665621e-006 a3 = 1.595505e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	761790.1	-1.5000	0.0000
1.0000	679462.0	1.0000	-0.0000
4.5000	580617.1	4.5000	-0.0000
8.0000	497796.5	8.0000	-0.0000
11.5000	428164.0	11.5000	0.0000
15.0000	369424.1	15.0001	0.0001
18.5000	319712.5	18.5000	0.0000
22.0000	277507.2	22.0000	-0.0000
25.5000	241565.2	25.5000	-0.0000
29.0000	210865.3	28.9999	-0.0001
32.5000	184565.5	32.5001	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

