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

SENSOR SERIAL NUMBER: 0992 CALIBRATION DATE: 14-Feb-24 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.075861e-005 a1 = 2.679004e-004 a2 = -2.007415e-006 a3 = 1.393357e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	800052.8	-1.4999	0.0001
1.0000	712642.1	1.0000	-0.0000
4.5000	607865.2	4.4999	-0.0001
8.0000	520233.5	8.0000	-0.0000
11.5000	446688.8	11.5000	0.0000
15.0000	384757.0	15.0001	0.0001
18.5000	332432.9	18.5000	0.0000
22.0000	288083.6	22.0000	-0.0000
25.5000	250375.4	25.5000	-0.0000
29.0000	218217.9	28.9999	-0.0001
32.5000	190711.4	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

