

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

SENSOR SERIAL NUMBER: 1426 CALIBRATION DATE: 22-Mar-24 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.035473e-004 a1 = 3.065365e-004 a2 = -4.399362e-006 a3 = 1.986898e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	635988.2	-1.5000	0.0000
1.0000	567582.3	1.0000	-0.0000
4.5001	485419.8	4.5000	-0.0001
8.0000	416542.5	8.0000	-0.0000
11.5000	358600.8	11.5001	0.0001
15.0000	309696.3	15.0001	0.0001
18.5000	268283.9	18.5000	0.0000
22.0000	233103.7	22.0000	0.0000
25.5001	203125.1	25.5000	-0.0001
29.0000	177502.1	29.0000	-0.0000
32.5000	155537.1	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

