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

SENSOR SERIAL NUMBER: 1425 CALIBRATION DATE: 14-Jan-25 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.572299e-005 a1 = 2.712036e-004 a2 = -2.135520e-006 a3 = 1.459917e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
-1.5000	911873.5	-1.5000	0.0000
1.0000	813681.6	1.0000	-0.0000
4.5000	695728.0	4.4999	-0.0001
8.0000	596832.6	8.0000	-0.0000
11.5000	513632.7	11.5001	0.0001
15.0000	443406.8	15.0000	0.0000
18.5000	383938.2	18.5000	0.0000
22.0000	333420.3	22.0000	0.0000
25.5000	290375.9	25.4999	-0.0001
29.0001	253587.8	29.0000	-0.0001
32.5000	222056.7	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

