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

SENSOR SERIAL NUMBER: 1638 CALIBRATION DATE: 25-Apr-24 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.300910e-004 a1 = 3.074387e-004 a2 = -4.419623e-006 a3 = 2.036216e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
-1.5000	906804.1	-1.4999	0.0001
1.0000	811019.4	1.0000	-0.0000
4.5000	695652.0	4.4999	-0.0001
8.0000	598632.5	8.0000	-0.0000
11.5000	516768.6	11.5001	0.0001
15.0000	447469.4	15.0001	0.0001
18.5000	388619.3	18.5000	0.0000
22.0000	338487.4	22.0000	-0.0000
25.5000	295653.5	25.5000	-0.0000
29.0000	258948.4	28.9999	-0.0001
32.5000	227403.3	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

