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

SENSOR SERIAL NUMBER: 3766 CALIBRATION DATE: 05-Feb-21 SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.040724e-005 a1 = 2.721847e-004 a2 = -1.971331e-006 a3 = 1.482212e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	591561.6	1.0001	0.0001
4.5000	506909.1	4.4999	-0.0001
15.0000	325085.5	15.0001	0.0001
18.5000	282045.5	18.5001	0.0001
24.0000	226944.6	23.9999	-0.0001
29.0000	187357.6	28.9999	-0.0001
32.5000	164360.9	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

