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

SENSOR SERIAL NUMBER: 2022 CALIBRATION DATE: 19-Jun-18 SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.740203e-005 a1 = 2.787844e-004 a2 = -2.684683e-006 a3 = 1.648029e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	694003.1	0.9999	-0.0001
4.5000	593957.4	4.5001	0.0001
15.0000	379558.9	14.9999	-0.0001
18.5000	328925.7	18.4999	-0.0001
24.0000	264189.4	24.0002	0.0002
29.0000	217762.6	28.9999	-0.0001
32.5001	190826.6	32.5001	-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

