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

SENSOR SERIAL NUMBER: 3768 CALIBRATION DATE: 07-Jan-25

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.937555e-005 a1 = 2.669960e-004 a2 = -1.572088e-006 a3 = 1.381579e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(°C)	(° C)
0.9999	597733.8	0.9999	0.0000
4.4999	512240.5	4.4999	-0.0000
14.9999	328589.9	14.9999	-0.0000
18.5000	285105.9	18.5001	0.0001
24.0000	229431.3	24.0000	
29.0000	189429.2	28.9999	-0.0001
	166187.3	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

