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

SENSOR SERIAL NUMBER: 0024 CALIBRATION DATE: 30-May-21

SBE 48 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.157402e-005 a1 = 2.660864e-004 a2 = -1.225175e-006 a3 = 1.238448e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	695356.0	1.0001	0.0001
4.5000	596484.1	4.4998	-0.0002
15.0000	383765.3	15.0001	0.0001
18.5000	333315.8	18.5002	0.0002
24.0000	268658.1	23.9997	-0.0003
29.0000	222132.4	29.0001	0.0001
32.4999	195078.5	32.4999	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

