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

SENSOR SERIAL NUMBER: 0288 CALIBRATION DATE: 13-Dec-20

SBE 45 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.638150e-006 a1 = 2.813512e-004 a2 = -3.018194e-006 a3 = 1.651304e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	701158.2	1.0000	-0.0000
4.4999	598116.8	4.4999	0.0000
14.9999	378674.1	14.9998	-0.0001
18.4999	327198.4	18.5000	0.0001
24.0000	261646.6	23.9999	-0.0001
29.0000	214836.7	29.0000	0.0000
32.5000	187776.1	32.5000	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

