

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

SENSOR SERIAL NUMBER: 1842 CALIBRATION DATE: 14-Sep-22 SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.998900e-005 a1 = 2.715513e-004 a2 = -2.144720e-006 a3 = 1.508001e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	640460.8	1.0000	0.0000
4.5000	547868.7	4.5000	-0.0000
15.0000	349618.5	14.9999	-0.0001
18.5000	302844.5	18.5001	0.0001
24.0000	243082.3	24.0000	-0.0000
29.0000	200244.7	29.0000	-0.0000
32.5000	175405.3	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

