

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

SENSOR SERIAL NUMBER: 0045 CALIBRATION DATE: 04-Jul-23 Prawler CTD TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -6.633231e-005 a1 = 2.926005e-004 a2 = -3.134766e-006 a3 = 1.653198e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	573446.1	1.0000	-0.0000
4.5000	490973.9	4.5000	0.0000
15.0000	314254.8	15.0000	0.0000
18.5000	272518.6	18.4999	-0.0001
24.0000	219143.9	24.0001	0.0001
29.0000	180849.8	28.9999	-0.0001
32.5000	158622.9	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

