



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 0023
CALIBRATION DATE: 20-Jan-21

Prawler CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.671220e-004
a1 = 3.181102e-004
a2 = -5.222338e-006
a3 = 2.226350e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	565689.6	1.0000	-0.0000
4.5000	484396.4	4.5001	0.0001
15.0001	310126.0	15.0000	-0.0001
18.5000	268951.8	18.5000	0.0000
24.0000	216292.9	24.0001	0.0001
29.0000	178507.2	28.9999	-0.0001
32.5000	156574.9	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

