



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

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

SENSOR SERIAL NUMBER: 0164
CALIBRATION DATE: 06-May-22

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.701121e-004
a1 = 3.213731e-004
a2 = -5.600848e-006
a3 = 2.326743e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0001	571167.4	1.0001	-0.0000
4.5000	488726.6	4.5000	0.0000
14.9999	312215.2	14.9999	-0.0000
18.5000	270569.5	18.5000	0.0000
24.0000	217355.3	24.0001	0.0001
29.0000	179209.2	28.9999	-0.0001
32.5000	157085.6	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

