



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: 21-Apr-22

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.257643e-004
a1 = 3.106146e-004
a2 = -4.733005e-006
a3 = 2.093990e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	571139.1	1.0001	0.0002
4.5000	488704.5	4.4997	-0.0003
15.0000	312196.4	15.0004	0.0004
18.5000	270564.0	18.4999	-0.0001
23.9999	217356.4	23.9998	-0.0001
28.9999	179211.2	28.9998	-0.0001
32.5000	157088.1	32.5001	0.0001

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

