



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

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

SENSOR SERIAL NUMBER: 2448
CALIBRATION DATE: 09-Sep-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.227290e-005
a1 = 2.825125e-004
a2 = -2.963542e-006
a3 = 1.698669e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	677381.9	1.0001	0.0001
4.4999	579375.5	4.4998	-0.0001
15.0000	369577.8	15.0000	-0.0000
18.5000	320098.8	18.5002	0.0002
24.0000	256895.1	23.9999	-0.0001
29.0001	211599.1	29.0000	-0.0001
32.5000	185339.8	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

