



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

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

SENSOR SERIAL NUMBER: 1806
CALIBRATION DATE: 04-May-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.104227e-004
a1 = 2.067717e-004
a2 = 2.826890e-006
a3 = 2.040279e-008

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	682376.8	0.9998	-0.0002
4.4999	583319.9	4.5002	0.0003
15.0000	371565.1	14.9999	-0.0001
18.5000	321673.6	18.4997	-0.0003
24.0000	257956.6	24.0002	0.0002
29.0000	212318.2	29.0003	0.0003
32.5001	185871.8	32.4999	-0.0002

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

