



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

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

SENSOR SERIAL NUMBER: 15274
CALIBRATION DATE: 01-Apr-25

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.618158e-004
a1 = 3.139990e-004
a2 = -4.780100e-006
a3 = 2.098139e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000 | 568268.2 | 1.0000 | 0.0000 |
| 4.5000 | 486835.8 | 4.5000 | -0.0000 |
| 14.9999 | 312130.4 | 14.9999 | -0.0000 |
| 18.4999 | 270816.8 | 18.5000 | 0.0001 |
| 24.0000 | 217953.6 | 24.0000 | -0.0000 |
| 29.0000 | 179995.5 | 28.9999 | -0.0001 |
| 32.5000 | 157952.6 | 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

