

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2023
CALIBRATION DATE: 01-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.700271e-005
a1 = 2.746569e-004
a2 = -2.455858e-006
a3 = 1.583454e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000 | 766832.6 | 1.0000 | 0.0000 |
| 4.5000 | 656055.9 | 4.5000 | -0.0000 |
| 15.0000 | 418781.4 | 15.0001 | 0.0001 |
| 18.5000 | 362787.5 | 18.5000 | -0.0000 |
| 24.0000 | 291224.5 | 24.0000 | 0.0000 |
| 29.0000 | 239922.6 | 28.9999 | -0.0001 |
| 32.5000 | 210171.0 | 32.5000 | 0.0000 |

Temperature ITS-90 = $1/[a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]] - 273.15$ (°C)

Residual = instrument temperature - bath temperature

