

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1863
CALIBRATION DATE: 08-Dec-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.093137e-005
a1 = 2.902302e-004
a2 = -3.619445e-006
a3 = 1.917901e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000 | 612607.8 | 1.0001 | 0.0001 |
| 4.5000 | 524283.9 | 4.4998 | -0.0002 |
| 15.0000 | 334964.3 | 15.0002 | 0.0002 |
| 18.5000 | 290260.6 | 18.5000 | 0.0000 |
| 24.0000 | 233110.1 | 23.9999 | -0.0001 |
| 29.0000 | 192122.7 | 28.9999 | -0.0001 |
| 32.5000 | 168345.9 | 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

