

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5288

CALIBRATION DATE: 04-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.129394e-004

a1 = 3.068476e-004

a2 = -4.391264e-006

a3 = 1.985951e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| -1.5000 | 644676.9 | -1.5000 | 0.0000 |
| 0.9999 | 575464.4 | 0.9999 | 0.0000 |
| 4.5000 | 492310.0 | 4.4999 | -0.0001 |
| 8.0000 | 422579.7 | 8.0000 | -0.0000 |
| 11.4999 | 363904.8 | 11.5000 | 0.0001 |
| 15.0000 | 314366.1 | 15.0000 | -0.0000 |
| 18.5000 | 272405.0 | 18.5000 | -0.0000 |
| 22.0000 | 236748.3 | 22.0000 | 0.0000 |
| 25.4999 | 206356.4 | 25.4999 | 0.0000 |
| 29.0000 | 180372.9 | 28.9999 | -0.0001 |
| 32.4999 | 158093.1 | 32.4999 | 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

n = instrument output

