

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0810
CALIBRATION DATE: 03-Mar-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.162407e-005
a1 = 2.795486e-004
a2 = -2.523082e-006
a3 = 1.627034e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| -1.5000 | 701878.5 | -1.5000 | 0.0000 |
| 0.9999 | 627488.9 | 0.9999 | -0.0000 |
| 4.4999 | 537922.0 | 4.4999 | 0.0000 |
| 8.0000 | 462632.5 | 7.9999 | -0.0001 |
| 11.4999 | 399131.7 | 11.4999 | 0.0000 |
| 15.0000 | 345397.8 | 15.0000 | -0.0000 |
| 18.4999 | 299786.0 | 18.4999 | 0.0000 |
| 21.9999 | 260946.7 | 21.9999 | 0.0000 |
| 25.4999 | 227776.1 | 25.4999 | -0.0000 |
| 28.9999 | 199363.2 | 28.9999 | -0.0000 |
| 32.4999 | 174956.4 | 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

