

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0256
CALIBRATION DATE: 21-Sep-11

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 4.309521e-005
a1 = 2.701589e-004
a2 = -2.112162e-006
a3 = 1.429633e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000 | 706230.2 | 1.0001 | 0.0001 |
| 4.4999 | 602850.1 | 4.4997 | -0.0002 |
| 15.0000 | 382382.8 | 15.0002 | 0.0002 |
| 18.5000 | 330605.3 | 18.5001 | 0.0001 |
| 24.0000 | 264610.4 | 23.9999 | -0.0001 |
| 29.0000 | 217440.7 | 28.9999 | -0.0001 |
| 32.5000 | 190149.4 | 32.5001 | 0.0001 |

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

