

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0288
CALIBRATION DATE: 30-Jan-14

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 7.394238e-006
a1 = 2.806816e-004
a2 = -2.962341e-006
a3 = 1.635405e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000 | 701195.8 | 0.9999 | -0.0001 |
| 4.4999 | 598133.2 | 4.5001 | 0.0002 |
| 15.0000 | 378670.7 | 14.9999 | -0.0001 |
| 18.5000 | 327195.6 | 18.4999 | -0.0001 |
| 24.0000 | 261635.8 | 24.0002 | 0.0002 |
| 28.9999 | 214828.3 | 28.9999 | 0.0000 |
| 32.5000 | 187766.9 | 32.4999 | -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

Date, Delta T (mdeg C)

● 12-Dec-12 -0.74
▲ 30-Jan-14 -0.00

