

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0475  
CALIBRATION DATE: 06-Nov-08

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999732e-001

rtca1 = 1.669373e-006

rtca2 = -2.685944e-008

| BATH TEMP<br>(ITS-90) | RTC FREO<br>(Hz) | COMPUTED FREO<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999750        | 0.9999748             | -0.2              |
| 4.4999                | 0.9999800        | 0.9999802             | 0.2               |
| 15.0000               | 0.9999920        | 0.9999922             | 0.2               |
| 18.4999               | 0.9999950        | 0.9999949             | -0.1              |
| 23.9999               | 0.9999980        | 0.9999978             | -0.2              |
| 28.9999               | 0.9999990        | 0.9999990             | 0.0               |
| 32.5001               | 0.9999990        | 0.9999991             | 0.1               |

$$\text{RTC frequency} = \text{rtca0} + \text{rtca1} * t + \text{rtca2} * t^2$$

$$\text{Residual} = (\text{Computed RTC frequency} - \text{Measured RTC frequency}) * 1e6$$

Date, Delta F ppm

