

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0818  
CALIBRATION DATE: 12-Jun-09

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999792e-001

rtca1 = 1.682948e-006

rtca2 = -3.096080e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 0.9999                | 0.9999810        | 0.9999808             | -0.2              |
| 4.4999                | 0.9999860        | 0.9999861             | 0.1               |
| 15.0001               | 0.9999970        | 0.9999975             | 0.5               |
| 18.5000               | 1.0000000        | 0.9999997             | -0.3              |
| 24.0001               | 1.0000020        | 1.0000017             | -0.3              |
| 29.0000               | 1.0000020        | 1.0000019             | -0.1              |
| 32.5000               | 1.0000010        | 1.0000012             | 0.2               |

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

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

Date, Delta F ppm

