

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1242  
CALIBRATION DATE: 17-Apr-12

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999619e-001

rtca1 = 1.662257e-006

rtca2 = -3.103371e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999640        | 0.9999635             | -0.5              |
| 4.5000                | 0.9999680        | 0.9999687             | 0.7               |
| 15.0000               | 0.9999800        | 0.9999798             | -0.2              |
| 18.5000               | 0.9999820        | 0.9999820             | -0.0              |
| 24.0000               | 0.9999840        | 0.9999839             | -0.1              |
| 29.0000               | 0.9999840        | 0.9999840             | -0.0              |
| 32.5000               | 0.9999830        | 0.9999831             | 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

