

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 3722  
CALIBRATION DATE: 03-Jun-08

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999842e-001

rtca1 = 1.536642e-006

rtca2 = -3.260830e-008

| BATH TEMP<br>(ITS-90) | RTC FREO<br>(Hz) | COMPUTED FREO<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999860        | 0.9999857             | -0.3              |
| 4.5000                | 0.9999900        | 0.9999905             | 0.5               |
| 15.0002               | 1.0000000        | 0.9999999             | -0.1              |
| 18.5000               | 1.0000020        | 1.0000015             | -0.5              |
| 24.0000               | 1.0000020        | 1.0000023             | 0.3               |
| 29.0001               | 1.0000010        | 1.0000014             | 0.4               |
| 32.5000               | 1.0000000        | 0.9999997             | -0.3              |

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

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

Date, Delta F ppm

