

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0470  
CALIBRATION DATE: 10-Dec-13

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999754e-001

rtca1 = 1.803577e-006

rtca2 = -3.043588e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999770        | 0.9999772             | 0.2               |
| 4.5000                | 0.9999830        | 0.9999829             | -0.1              |
| 15.0000               | 0.9999960        | 0.9999956             | -0.4              |
| 18.5000               | 0.9999980        | 0.9999983             | 0.3               |
| 24.0000               | 1.0000010        | 1.0000011             | 0.1               |
| 29.0000               | 1.0000020        | 1.0000021             | 0.1               |
| 32.5000               | 1.0000020        | 1.0000018             | -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

