

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3764  
CALIBRATION DATE: 21-Nov-15

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999828e-001  
rtca1 = 1.675854e-006  
rtca2 = -3.513561e-008

| BATH<br>TEMPERATURE (° C) | RTC<br>FREQUENCY (Hz) | COMPUTED<br>FREQUENCY (Hz) | RESIDUAL<br>(PPM) |
|---------------------------|-----------------------|----------------------------|-------------------|
| 1.0000                    | 0.9999850             | 0.9999845                  | -0.5              |
| 4.5000                    | 0.9999890             | 0.9999897                  | 0.7               |
| 15.0000                   | 1.0000000             | 1.0000001                  | 0.1               |
| 18.5001                   | 1.0000020             | 1.0000018                  | -0.2              |
| 24.0000                   | 1.0000030             | 1.0000028                  | -0.2              |
| 29.0000                   | 1.0000020             | 1.0000019                  | -0.1              |
| 32.5000                   | 1.0000000             | 1.0000002                  | 0.2               |

t = temperature (°C)

RTC frequency =  $rtca0 + rtca1 * t + rtca2 * t^2$

Residual (PPM) = (Computed RTC frequency - Measured RTC frequency) \* 1e6

