

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3423  
CALIBRATION DATE: 23-Nov-16

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999921e-001

rtca1 = 1.575923e-006

rtca2 = -3.234718e-008

| BATH<br>TEMPERATURE (° C) | RTC<br>FREQUENCY (Hz) | COMPUTED<br>FREQUENCY (Hz) | RESIDUAL<br>(PPM) |
|---------------------------|-----------------------|----------------------------|-------------------|
| 1.0000                    | 0.9999940             | 0.9999937                  | -0.3              |
| 4.4999                    | 0.9999980             | 0.9999986                  | 0.6               |
| 15.0000                   | 1.0000090             | 1.0000085                  | -0.5              |
| 18.5000                   | 1.0000100             | 1.0000102                  | 0.2               |
| 24.0000                   | 1.0000110             | 1.0000113                  | 0.3               |
| 29.0000                   | 1.0000110             | 1.0000106                  | -0.4              |
| 32.5000                   | 1.0000090             | 1.0000092                  | 0.2               |

t = temperature (°C)

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

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

