

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0827  
CALIBRATION DATE: 09-Dec-16

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999855e-001

rtca1 = 1.530262e-006

rtca2 = -2.687123e-008

| BATH<br>TEMPERATURE (° C) | RTC<br>FREQUENCY (Hz) | COMPUTED<br>FREQUENCY (Hz) | RESIDUAL<br>(PPM) |
|---------------------------|-----------------------|----------------------------|-------------------|
| 1.0000                    | 0.9999870             | 0.9999870                  | 0.0               |
| 4.4999                    | 0.9999920             | 0.9999919                  | -0.1              |
| 15.0000                   | 1.0000020             | 1.0000024                  | 0.4               |
| 18.5000                   | 1.0000050             | 1.0000046                  | -0.4              |
| 24.0000                   | 1.0000070             | 1.0000068                  | -0.2              |
| 29.0000                   | 1.0000070             | 1.0000073                  | 0.3               |
| 32.5000                   | 1.0000070             | 1.0000069                  | -0.1              |

t = temperature (°C)

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

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

