

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3979  
CALIBRATION DATE: 05-Oct-16

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999896e-001

rtca1 = 1.727574e-006

rtca2 = -3.404601e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999910	0.9999913	0.3
4.4999	0.9999970	0.9999967	-0.3
15.0000	1.0000080	1.0000078	-0.2
18.5000	1.0000100	1.0000099	-0.1
24.0000	1.0000110	1.0000114	0.4
29.0001	1.0000110	1.0000111	0.1
32.5000	1.0000100	1.0000098	-0.2

t = temperature (°C)

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

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

