

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3766  
CALIBRATION DATE: 21-Nov-15

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999803e-001  
rtca1 = 1.650117e-006  
rtca2 = -3.229393e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999820	0.9999820	-0.0
4.5000	0.9999870	0.9999871	0.1
15.0000	0.9999980	0.9999978	-0.2
18.5001	1.0000000	0.9999998	-0.2
24.0000	1.0000010	1.0000013	0.3
29.0000	1.0000010	1.0000010	0.0
32.5000	1.0000000	0.9999999	-0.1

t = temperature (°C)

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

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

