

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2323  
CALIBRATION DATE: 28-Jan-17

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999872e-001

rtca1 = 1.696469e-006

rtca2 = -3.252429e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999890	0.9999889	-0.1
4.5000	0.9999940	0.9999942	0.2
14.9999	1.0000050	1.0000053	0.3
18.5000	1.0000080	1.0000074	-0.6
24.0000	1.0000090	1.0000092	0.2
29.0000	1.0000090	1.0000090	0.0
32.5000	1.0000080	1.0000080	-0.0

t = temperature (°C)

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

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

