

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2331
CALIBRATION DATE: 20-Nov-15

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 1.000000e+000
rtca1 = 1.469671e-006
rtca2 = -3.102643e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	1.0000020	1.0000017	-0.3
4.5000	1.0000060	1.0000063	0.3
15.0000	1.0000150	1.0000154	0.4
18.5000	1.0000170	1.0000169	-0.1
24.0000	1.0000180	1.0000177	-0.3
29.0000	1.0000170	1.0000168	-0.2
32.5000	1.0000150	1.0000153	0.3

t = temperature (°C)

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

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

