

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2333
CALIBRATION DATE: 22-Nov-15

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 1.000008e+000
rtca1 = 1.366475e-006
rtca2 = -2.643270e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	1.0000090	1.0000089	-0.1
4.5000	1.0000130	1.0000132	0.2
15.0000	1.0000220	1.0000221	0.1
18.5000	1.0000240	1.0000238	-0.2
24.0000	1.0000250	1.0000251	0.1
29.0000	1.0000250	1.0000249	-0.1
32.5000	1.0000240	1.0000240	0.0

t = temperature (°C)

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

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

