

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1853
CALIBRATION DATE: 21-Nov-15

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999851e-001
rtca1 = 1.739713e-006
rtca2 = -3.278568e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999870	0.9999868	-0.2
4.5000	0.9999920	0.9999923	0.3
15.0000	1.0000040	1.0000038	-0.2
18.5001	1.0000060	1.0000061	0.1
24.0000	1.0000080	1.0000080	-0.0
29.0000	1.0000080	1.0000080	-0.0
32.5000	1.0000070	1.0000070	0.0

t = temperature (°C)

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

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

