

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0510  
CALIBRATION DATE: 13-Jan-12

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999924e-001

rtca1 = 1.693454e-006

rtca2 = -3.530338e-008

BATH TEMP (ITS-90)	RTC FREQO (Hz)	COMPUTED FREQO (Hz)	RESIDUAL (PPM)
-1.5001	0.99999900	0.99999898	-0.2
0.9999	0.99999940	0.99999941	0.1
4.4999	0.99999990	0.99999993	0.3
7.9999	1.00000040	1.00000037	-0.3
11.4999	1.00000070	1.00000072	0.2
14.9999	1.00000100	1.00000099	-0.1
18.4999	1.00000120	1.00000117	-0.3
21.9999	1.00000120	1.00000126	0.6
25.4999	1.00000130	1.00000127	-0.3
28.9999	1.00000120	1.00000118	-0.2
32.4999	1.00000100	1.00000102	0.2

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

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

Date, Delta F ppm

