

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0804  
CALIBRATION DATE: 17-Jan-12

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999864e-001

rtca1 = 1.626792e-006

rtca2 = -3.518994e-008

BATH TEMP (ITS-90)	RTC FREO (Hz)	COMPUTED FREO (Hz)	RESIDUAL (PPM)
-1.5001	0.9999840	0.9999839	-0.1
0.9999	0.9999880	0.9999880	-0.0
4.4999	0.9999930	0.9999930	0.0
7.9999	0.9999970	0.9999972	0.2
11.4999	1.0000000	1.0000004	0.4
14.9999	1.0000030	1.0000029	-0.1
18.4999	1.0000050	1.0000044	-0.6
21.9999	1.0000050	1.0000052	0.2
25.4999	1.0000050	1.0000050	-0.0
28.9999	1.0000040	1.0000040	-0.0
32.4999	1.0000020	1.0000021	0.1

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

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

Date, Delta F ppm

