

# 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: 0990  
CALIBRATION DATE: 12-Feb-14

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 1.000001e+000

rtca1 = 1.568336e-006

rtca2 = -3.457149e-008

BATH TEMP (ITS-90)	RTC FREQ (Hz)	COMPUTED FREQ (Hz)	RESIDUAL (PPM)
-1.5000	0.9999980	0.9999981	0.1
1.0000	1.0000020	1.0000020	0.0
4.5000	1.0000070	1.0000069	-0.1
8.0000	1.0000110	1.0000108	-0.2
11.5000	1.0000140	1.0000140	-0.0
15.0000	1.0000160	1.0000163	0.3
18.5000	1.0000180	1.0000177	-0.3
22.0000	1.0000180	1.0000183	0.3
25.5000	1.0000180	1.0000180	0.0
29.0000	1.0000170	1.0000169	-0.1
32.5000	1.0000150	1.0000150	-0.0

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

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

Date, Delta F ppm

