

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: 0813

CALIBRATION DATE: 11-Sep-14

SBE 37 RTC CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999795e-001

rtca1 = 1.697320e-006

rtca2 = -2.911514e-008

BATH TEMP (ITS-90)	RTC FREQ (Hz)	COMPUTED FREQ (Hz)	RESIDUAL (PPM)
0.9999	0.9999810	0.9999812	0.2
4.5000	0.9999870	0.9999866	-0.4
14.9999	0.9999980	0.9999985	0.5
18.4999	1.0000010	1.0000010	-0.0
23.9999	1.0000040	1.0000035	-0.5
29.0001	1.0000040	1.0000043	0.3
32.5000	1.0000040	1.0000040	-0.0

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

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

