

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: 0817

CALIBRATION DATE: 13-Sep-14

SBE 37 RTC CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 1.0000008e+000

rtca1 = 1.616004e-006

rtca2 = -3.334245e-008

BATH TEMP (ITS-90)	RTC FREQ (Hz)	COMPUTED FREQ (Hz)	RESIDUAL (PPM)
0.9999	1.0000100	1.0000096	-0.4
4.5000	1.0000140	1.0000146	0.6
15.0000	1.0000250	1.0000247	-0.3
18.4999	1.0000260	1.0000265	0.5
24.0000	1.0000280	1.0000276	-0.4
29.0000	1.0000270	1.0000268	-0.2
32.5000	1.0000250	1.0000253	0.3

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

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

