

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: 1852
CALIBRATION DATE: 21-Nov-15

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999822e-001

rtca1 = 1.686128e-006

rtca2 = -3.022734e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999840	0.9999839	-0.1
4.5000	0.9999890	0.9999892	0.2
15.0000	1.0000010	1.0000007	-0.3
18.5001	1.0000030	1.0000031	0.1
24.0000	1.0000050	1.0000053	0.3
29.0000	1.0000060	1.0000057	-0.3
32.5000	1.0000050	1.0000051	0.1

t = temperature (°C)

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

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

