



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

+1 425-643-9866  
seabird@seabird.com  
www.seabird.com

SENSOR SERIAL NUMBER: 1866  
CALIBRATION DATE: 27-Feb-18

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999940e-001  
rtca1 = 1.616015e-006  
rtca2 = -3.334268e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999960	0.9999956	-0.4
4.5000	1.0000000	1.0000006	0.6
15.0000	1.0000110	1.0000107	-0.3
18.5000	1.0000120	1.0000125	0.5
24.0000	1.0000140	1.0000136	-0.4
29.0000	1.0000130	1.0000128	-0.2
32.5000	1.0000110	1.0000113	0.3

t = temperature (°C)

RTC frequency = rtca0 + rtca1 \* t + rtca2 \* t<sup>2</sup>

Residual (PPM) = (Computed RTC frequency - Measured RTC frequency) \* 1e6

