



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: 3765  
CALIBRATION DATE: 30-May-21

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999802e-001  
rtca1 = 1.686133e-006  
rtca2 = -3.022755e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999820	0.9999819	-0.1
4.4999	0.9999870	0.9999872	0.2
14.9999	0.9999990	0.9999987	-0.3
18.5000	1.0000010	1.0000011	0.1
24.0000	1.0000030	1.0000033	0.3
29.0000	1.0000040	1.0000037	-0.3
32.5000	1.0000030	1.0000031	0.1

t = temperature (°C)

RTC frequency =  $rtca0 + rtca1 * t + rtca2 * t^2$

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

