



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: 2025  
CALIBRATION DATE: 07-Mar-18

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999912e-001  
rtca1 = 1.686233e-006  
rtca2 = -3.276650e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999930	0.9999929	-0.1
4.5000	0.9999980	0.9999981	0.1
15.0000	1.0000090	1.0000091	0.1
18.5001	1.0000110	1.0000112	0.2
24.0000	1.0000130	1.0000128	-0.2
28.9999	1.0000130	1.0000125	-0.5
32.5000	1.0000110	1.0000114	0.4

t = temperature (°C)

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

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

