



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

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

SENSOR SERIAL NUMBER: 2331
CALIBRATION DATE: 26-May-21

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 1.000001e+000
rtca1 = 1.560616e-006
rtca2 = -3.434115e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
0.9999	1.0000020	1.0000021	0.1
4.5000	1.0000070	1.0000069	-0.1
15.0000	1.0000160	1.0000162	0.2
18.4999	1.0000180	1.0000177	-0.3
24.0000	1.0000180	1.0000182	0.2
29.0000	1.0000170	1.0000169	-0.1
32.5000	1.0000150	1.0000150	-0.0

t = temperature (°C)

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

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

