



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

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

SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 10-Sep-21

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999902e-001
rtca1 = 1.502319e-006
rtca2 = -2.461564e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999920	0.9999917	-0.3
4.5000	0.9999960	0.9999965	0.5
14.9999	1.0000070	1.0000072	0.2
18.5000	1.0000100	1.0000096	-0.4
24.0000	1.0000120	1.0000121	0.1
29.0000	1.0000130	1.0000131	0.1
32.5000	1.0000130	1.0000130	0.0

t = temperature (°C)

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

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

