

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1869
CALIBRATION DATE: 11-Oct-16

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999811e-001
rtca1 = 1.726230e-006
rtca2 = -3.122321e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
1.0000	0.9999830	0.9999828	-0.2
4.5000	0.9999880	0.9999882	0.2
14.9999	1.0000000	1.0000000	-0.0
18.4999	1.0000020	1.0000023	0.3
23.9999	1.0000050	1.0000045	-0.5
28.9999	1.0000050	1.0000049	-0.1
32.5000	1.0000040	1.0000042	0.2

t = temperature (°C)

$\text{RTC frequency} = \text{rtca0} + \text{rtca1} * t + \text{rtca2} * t^2$

$\text{Residual (PPM)} = (\text{Computed RTC frequency} - \text{Measured RTC frequency}) * 1e6$

