

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0510
CALIBRATION DATE: 14-Oct-16

SBE 39 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999924e-001
rtca1 = 1.718165e-006
rtca2 = -3.593942e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.5000	0.9999900	0.9999897	-0.3
1.0000	0.9999940	0.9999940	0.0
4.5000	0.9999990	0.9999994	0.4
8.0000	1.0000040	1.0000038	-0.2
11.5000	1.0000070	1.0000074	0.4
15.0000	1.0000100	1.0000101	0.1
18.5000	1.0000120	1.0000119	-0.1
22.0000	1.0000130	1.0000128	-0.2
25.5000	1.0000130	1.0000128	-0.2
29.0000	1.0000120	1.0000120	-0.0
32.5000	1.0000100	1.0000102	0.2

t = temperature (°C)

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

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

