

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0514  
CALIBRATION DATE: 26-Nov-15

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999754e-001

rtca1 = 1.685147e-006

rtca2 = -3.442571e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.5000	0.9999730	0.9999728	-0.2
1.0000	0.9999770	0.9999771	0.1
4.5000	0.9999820	0.9999823	0.3
8.0000	0.9999870	0.9999867	-0.3
11.5000	0.9999900	0.9999903	0.3
15.0000	0.9999930	0.9999930	-0.0
18.5000	0.9999950	0.9999948	-0.2
22.0000	0.9999960	0.9999958	-0.2
25.5000	0.9999960	0.9999960	0.0
29.0000	0.9999950	0.9999953	0.3
32.5000	0.9999940	0.9999938	-0.2

t = temperature (°C)

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

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

