

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0986  
CALIBRATION DATE: 01-Dec-15

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999793e-001

rtca1 = 1.575582e-006

rtca2 = -3.454472e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.5000	0.9999770	0.9999769	-0.1
1.0000	0.9999810	0.9999808	-0.2
4.5000	0.9999850	0.9999857	0.7
8.0000	0.9999900	0.9999897	-0.3
11.5000	0.9999930	0.9999929	-0.1
15.0000	0.9999950	0.9999952	0.2
18.5000	0.9999970	0.9999966	-0.4
22.0000	0.9999970	0.9999972	0.2
25.5000	0.9999970	0.9999970	0.0
29.0000	0.9999960	0.9999959	-0.1
32.5000	0.9999940	0.9999940	0.0

t = temperature (°C)

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

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

