

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0564  
CALIBRATION DATE: 11-Oct-16

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999705e-001  
rtca1 = 1.593050e-006  
rtca2 = -3.520777e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.4999	0.9999680	0.9999680	-0.0
1.0000	0.9999720	0.9999720	0.0
4.5000	0.9999770	0.9999769	-0.1
8.0000	0.9999810	0.9999809	-0.1
11.5000	0.9999840	0.9999841	0.1
15.0000	0.9999860	0.9999864	0.4
18.5000	0.9999880	0.9999879	-0.1
22.0000	0.9999890	0.9999885	-0.5
25.5000	0.9999880	0.9999882	0.2
29.0000	0.9999870	0.9999870	0.0
32.5000	0.9999850	0.9999850	0.0

t = temperature (°C)

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

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

