

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0805  
CALIBRATION DATE: 25-Nov-15

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999714e-001  
rtca1 = 1.645871e-006  
rtca2 = -3.426058e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.5000	0.9999690	0.9999689	-0.1
1.0000	0.9999730	0.9999730	0.0
4.5000	0.9999780	0.9999781	0.1
8.0000	0.9999820	0.9999824	0.4
11.5000	0.9999860	0.9999858	-0.2
15.0000	0.9999890	0.9999884	-0.6
18.5000	0.9999900	0.9999901	0.1
22.0000	0.9999910	0.9999910	0.0
25.5000	0.9999910	0.9999911	0.1
29.0000	0.9999900	0.9999903	0.3
32.5000	0.9999890	0.9999887	-0.3

t = temperature (°C)

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

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

