

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0808  
CALIBRATION DATE: 04-Oct-16

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999862e-001  
rtca1 = 1.544569e-006  
rtca2 = -3.499404e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.5000	0.9999840	0.9999838	-0.2
1.0000	0.9999880	0.9999877	-0.3
4.5000	0.9999920	0.9999924	0.4
8.0000	0.9999960	0.9999963	0.3
11.5000	0.9999990	0.9999993	0.3
14.9999	1.0000020	1.0000015	-0.5
18.5000	1.0000030	1.0000028	-0.2
22.0000	1.0000030	1.0000032	0.2
25.5000	1.0000030	1.0000028	-0.2
29.0000	1.0000020	1.0000016	-0.4
32.5000	0.9999990	0.9999994	0.4

t = temperature (°C)

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

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

