

# 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: 0991

CALIBRATION DATE: 14-Oct-16

SBE 39 RTC CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999832e-001

rtca1 = 1.551938e-006

rtca2 = -3.558151e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
-1.5000	0.9999810	0.9999808	-0.2
1.0000	0.9999850	0.9999847	-0.3
4.5000	0.9999890	0.9999895	0.5
8.0000	0.9999930	0.9999933	0.3
11.5000	0.9999960	0.9999963	0.3
15.0000	0.9999990	0.9999985	-0.5
18.5000	1.0000000	0.9999997	-0.3
22.0000	1.0000000	1.0000001	0.1
25.5000	1.0000000	0.9999996	-0.4
29.0000	0.9999980	0.9999983	0.3
32.5000	0.9999960	0.9999961	0.1

t = temperature (°C)

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

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

