

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0562
CALIBRATION DATE: 05-Oct-16

SBE 39 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999716e-001
rtca1 = 1.710922e-006
rtca2 = -3.596625e-008

| BATH TEMPERATURE (° C) | RTC FREQUENCY (Hz) | COMPUTED FREQUENCY (Hz) | RESIDUAL (PPM) |
|---------------------------|-----------------------|----------------------------|-------------------|
| -1.5000 | 0.9999690 | 0.9999689 | -0.1 |
| 1.0000 | 0.9999730 | 0.9999732 | 0.2 |
| 4.5000 | 0.9999790 | 0.9999785 | -0.5 |
| 8.0000 | 0.9999830 | 0.9999830 | -0.0 |
| 11.5000 | 0.9999860 | 0.9999865 | 0.5 |
| 14.9999 | 0.9999890 | 0.9999891 | 0.1 |
| 18.5000 | 0.9999910 | 0.9999909 | -0.1 |
| 22.0000 | 0.9999920 | 0.9999918 | -0.2 |
| 25.5000 | 0.9999920 | 0.9999918 | -0.2 |
| 29.0000 | 0.9999910 | 0.9999909 | -0.1 |
| 32.5000 | 0.9999890 | 0.9999892 | 0.2 |

t = temperature (°C)

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

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

