

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2022
CALIBRATION DATE: 22-Nov-15

SBE 37 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999870e-001

rtca1 = 1.786062e-006

rtca2 = -3.301592e-008

| BATH TEMPERATURE (° C) | RTC FREQUENCY (Hz) | COMPUTED FREQUENCY (Hz) | RESIDUAL (PPM) |
|---------------------------|-----------------------|----------------------------|-------------------|
| 1.0000 | 0.9999890 | 0.9999887 | -0.3 |
| 4.5000 | 0.9999940 | 0.9999943 | 0.3 |
| 15.0000 | 1.0000060 | 1.0000063 | 0.3 |
| 18.5000 | 1.0000090 | 1.0000087 | -0.3 |
| 24.0000 | 1.0000110 | 1.0000108 | -0.2 |
| 29.0000 | 1.0000110 | 1.0000110 | -0.0 |
| 32.5000 | 1.0000100 | 1.0000101 | 0.1 |

t = temperature (°C)

RTC frequency = rtca0 + rtca1 * t + rtca2 * t²

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

