



**Tempo Disc™  
IP67 Waterproof Temperature Logger**

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# **Specifications**

## Specifications

The following is the specification for the Tempo Disc Bluetooth Waterproof Temperature Logger.

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|---------------------------------|---|--|
| <b>BLUETOOTH VERSION</b>        | 4.1   | <b>SETTINGS FEATURES</b><br><br>The following represent some of the settings that can be changed using the Command Console<br><br>Transmit Power, Advertising Timeout, Name of Device, Rate of Logging, Password Protect, Reset Device, Device Information, Device Firmware Upgrade, Flight Safe Mode, Threshold Alarms for Temperature (x2) |
| <b>BLUETOOTH SYSTEM ON CHIP</b> | Nordic Semiconductor nRF52832   |  |
| <b>MEMORY</b>                   | 64k RAM, 512k Flash   |  |
| <b>PROCESSOR</b>                | ARM Cortex M4 32-bit  |  |
| <b>BATTERY</b>                  | CR2032 (non-changeable)   |  |
| <b>BATTERY LIFE</b>             | Approximately 12 months in normal conditions and normal use   |  |
| <b>SENSOR MODEL</b>             | Silicon Labs I2C SI7020 A20. For more details on the nature of the sensor including hysteresis, drift, long term stability, accuracy, etc. please see the underlying sensor specification document: <a href="https://www.silabs.com/documents/public/data-sheets/Si7020-A20.pdf">https://www.silabs.com/documents/public/data-sheets/Si7020-A20.pdf</a> | <b>FREQUENCY OF LOGGING</b><br>Configurable from measuring and logging Temperature every 1 minute to every 12 hours. Default is hourly   |
| <b>TEMPERATURE SENSOR</b>       | +/- 0.4 Degrees Celsius with a range of -30 and +80 Degrees Celsius   | <b>NUMBER OF LOGS</b><br>20,000 timestamped temperature data points  |
| <b>CALIBRATION</b>              | Factory calibration certificates available. Device also has calibration offsets for user based calibration  | <b>FLIGHT SAFE MDOE</b><br>The Device can be put into airplane mode such that it logs data but does not transmit radio signals. When the button is depressed, the Device will advertise for 1 minute and it can be taken out of airplane mode  |
| <b>ANTENNA</b>                  | Johannson Technology 2450AT18D0100 omni-directional chip antenna with matching tuning circuitry   | <b>CUSTOMISABLE</b><br>Colouring, branding, advertising packet and firmware customisation possible.  |
| <b>RANGE</b>                    | 75 meters/250 feet line of sight  | <b>IP RATING</b><br>IP67   |
| <b>HARDWARE FEATURES</b>        | Polycarbonate exterior with TPE soft touch button and LED indicator   | <b>REGULATORY</b><br>EC, FCC and RoHS  |
|                                 |   | <b>COUNTRY OF MANUFACTURE</b><br>United Kingdom  |

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## Dimensions and form

The enclosure is a white polycarbonate body with vertical air vents for fast and accurate environment measurement, a soft touch coloured TPE button on the top surface and a green LED indicator visible through a small bubble type protrusion on the side.

