

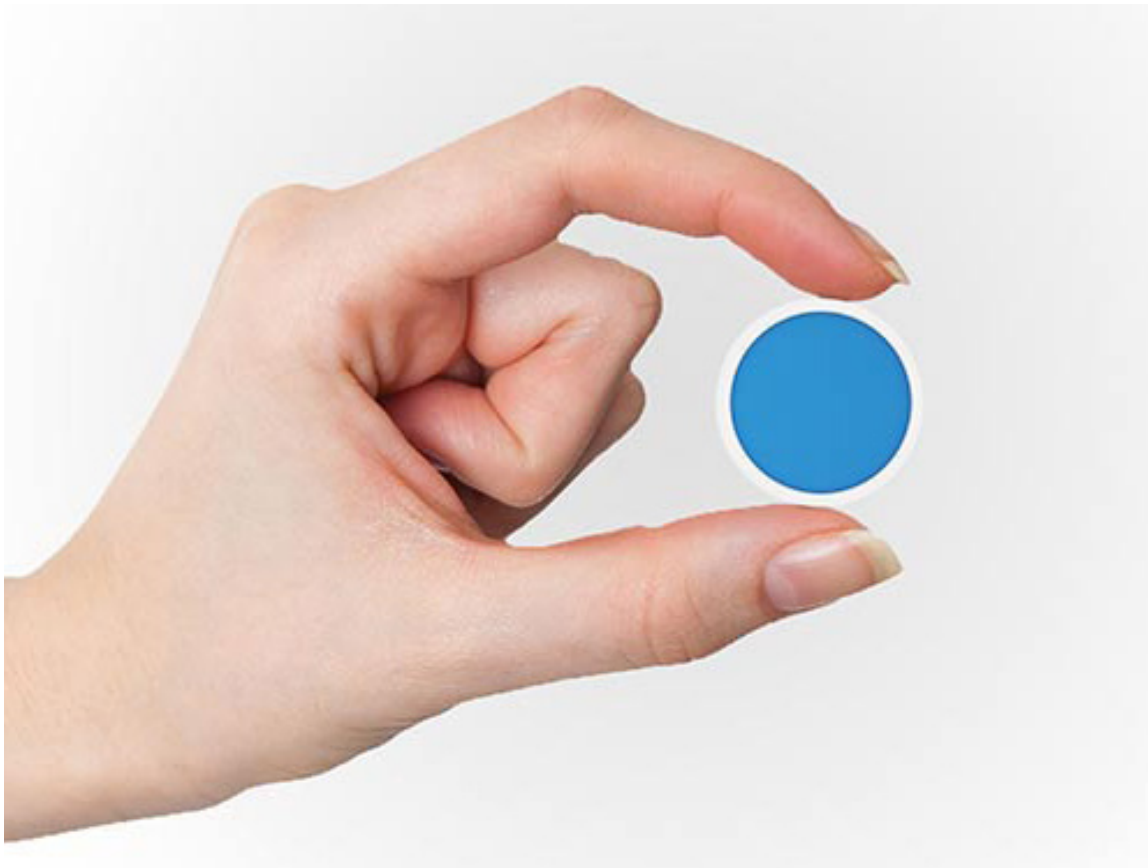
Blue Maestro Disc Mini

TEMPERATURE, HUMIDITY & DEW POINT SENSOR AND LOGGER: DISC-Mini-003

SPECIFICATIONS

Version 2.0.2

26 April 2024



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Specifications

The following is the specification for the Tempo Disc Temperature, Humidity and Dew Point Data Logger.

BLUETOOTH VERSION	4.3 or higher
BLUETOOTH SYSTEM ON CHIP	Nordic Semiconductor nRF52832
MEMORY	64k RAM, 512k Flash
PROCESSOR	ARM Cortex M4 32-bit
BATTERY	CR2032, changeable
TEMPERATURE SENSOR (SILICON LABS SI7020 - AGM)	Accuracy of +/- 0.4 Degrees Celsius with a range of -40 to +125 Degrees Celsius. Sensor factory calibrated
HUMIDITY SENSOR (SILICON LABS SI7020 - AGM)	Accuracy of +/- 4% Relative Humidity. Full range 0% - 100% Relative Humidity. Sensor factory calibrated
DEW POINT	Dew point is calculated from Temperature and Humidity
ANTENNA	Johannson Technology 2450AT18D0100 omni-directional chip antenna
RANGE	Up to 75 meters/250 feet line of sight
HARDWARE FEATURES	Polycarbonate exterior with TPE soft touch button and LED indicator
ENERGY CONSUMPTION (FROM NORDIC SEMICONDUCTOR)	nRF52832 Peak TX (0dBm) 5.3 mA; running from Flash 58 μ A MPU6500 Low Power Mode 17.75 μ A
ESTIMATED BATTERY LIFE*	In excess of 18 months in Logging Mode (continuous logging and Bluetooth transmission when downloading log) and up to 9 - 12 months in Continuous Mode (continuous logging and Bluetooth transmission).

SETTINGS FEATURES	The following represent some of the settings 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 or Humidity (x2)
FREQUENCY OF LOGGING	Configurable from 10 seconds to every 12 hours. Default is hourly
NUMBER OF LOGS	6,000 timestamped logs with a circular buffer
FLIGHT SAFE MDOE	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 5 minutes and it can be taken out of airplane mode
CUSTOMISABLE	Colouring, branding, advertising packet and firmware possible
REAL TIME CLOCK	Device can be set with time and date for accurate timestamping of logged data.
IP RATING	IP62
REGULATORY	EC/FCC/RoHS compliant
COUNTRY OF MANUFACTURE	United States/United Kingdom

* Battery life is estimated only can vary depending on device age, use case and operating temperature. Battery life will be diminished when Disc is operated continuously at temperatures below 0°C.

Dimensions and form

The following represents the dimensions and form of the temperature & humidity sensor and logger.

