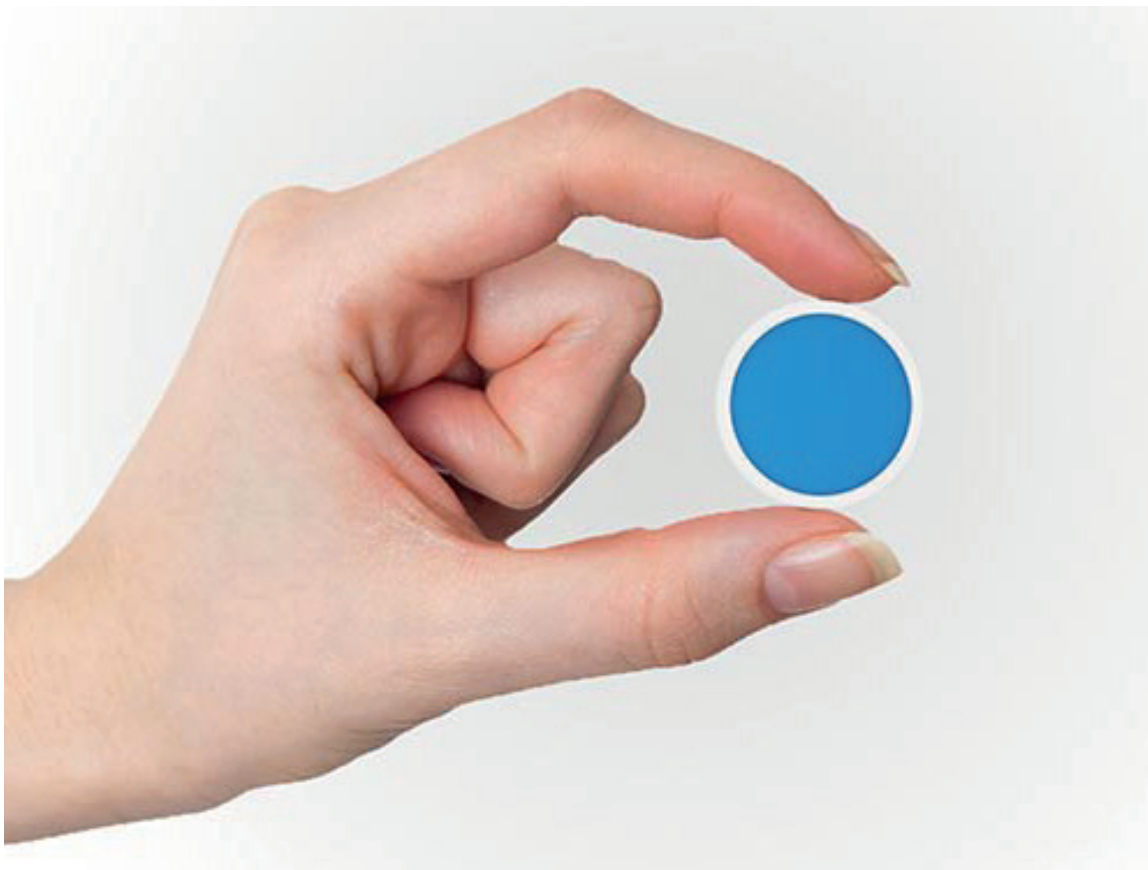


TEMPERATURE, HUMIDITY & DEW POINT SENSOR AND LOGGER

SPECIFICATIONS

Version 2.0.1

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Specifications

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

BLUETOOTH VERSION	4.1	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)
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 -20 and +75 Degrees Celsius. Sensor factory calibrated	
HUMIDITY SENSOR (SILICON LABS SI7020 - AGM)	Accuracy of +/- 4% Relative Humidity. Accurate range 0% - 80% 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 µA MPU6500 Low Power Mode 17.75 µA	
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).	
FREQUENCY OF LOGGING	Configurable from 60 seconds to every 24 hours. Default is hourly	
NUMBER OF LOGS	18,000 data points with 6,000 each of Temperature, Humidity and Dew Point. Log is on a continuous rotation FIFO basis and stored in non-volatile memory	
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 time-stamping of logged data.	
IP RATING	IP62	
REGULATORY	EC/FCC/RoHS compliant	
COUNTRY OF MANUFACTURE	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.

