

PEBBLE ENVIRONMENT MONITOR

TECHNICAL SPECIFICATIONS

Version 1.20

24 September 2017



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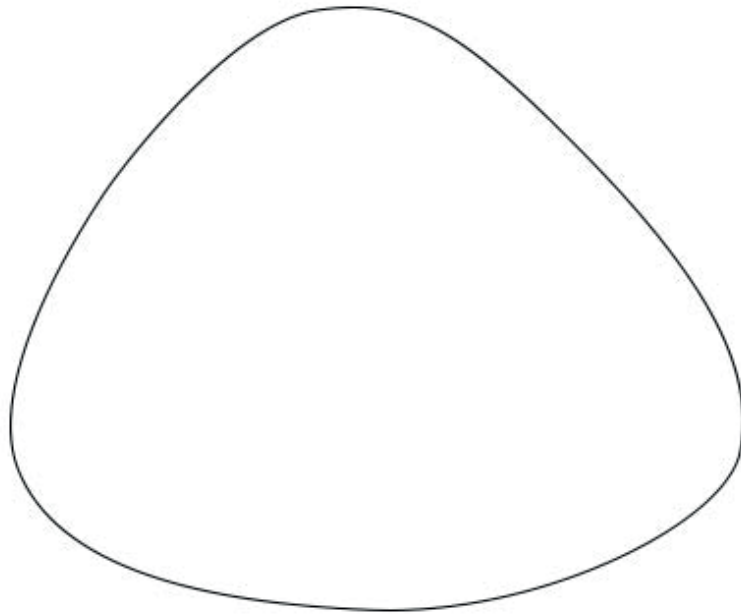
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Specifications

The following is the specification for the Tempo Disc unit. For physical dimensions and form see further in this document.

BLUETOOTH VERSION	4.1
BLUETOOTH SYSTEM ON CHIP	Nordic Semiconductor nRF52832
MEMORY	64k RAM, 512k Flash
PROCESSOR	ARM Cortex M4 32-bit
BATTERY	2xAA batteries changeable (included)
SENSOR UNIT	Bosch Sensortec BME280. For further details on the following sensor accuracies please refer to the BME280 specifications: https://ae-bst.resource.bosch.com/media/_tech/media/datasheets/BST-BME280_DS001-11.pdf
TEMPERATURE SENSOR	Maximum accuracy of +/- 0.5° Celsius between 0° C - 60° C with a full range of -30° C and +85° C Degrees Celsius. Resolution of 0.1° C
HUMIDITY SENSOR	Maximum accuracy of +/- 3% Relative Humidity between 20% RH - 100% RH.. Full range 0% - 100% RH, Resolution of 0.1% RH
PRESSURE SENSOR	+/- 0.12hPa relative pressure (hPa) between 700hPa - 900hPa with a full range between 300 hPa and 1100 hPa. Resolution of 0.1hPa
DEW POINT	Dew point is calculated using an algorithm with Temperature and Humidity as inputs
ANTENNA	Johannson Technology 2450AT18D0100 omni-directional chip antenna with matching tuning circuitry
RANGE	75 meters/250 feet line of sight

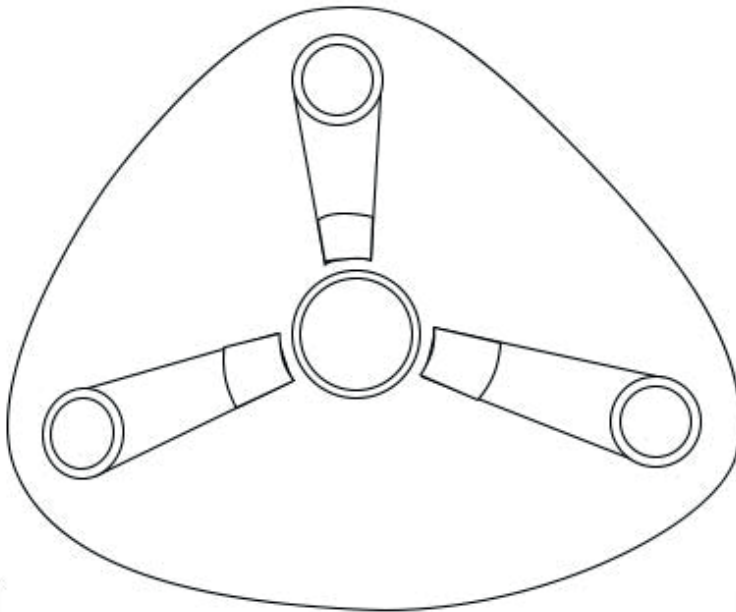
DIMENSIONS	Height 35 mm/1.5 inches Length 90mm/3.6 inches Width 70mm/2.8 inches
WEIGHT (WITH BATTERIES)	80 grams/3.6 ounces
FREQUENCY OF LOGGING	User configurable from measuring and logging every 60 seconds to every 24 hours. Default is hourly.
NUMBER OF LOGS	24,000 data points collectively 6,000 for each metric. Logging is on a rolling basis where at capacity, older logged data is written over
SENSOR POLLING	Every 20 seconds
HARDWARE FEATURES	Polycarbonate exterior with TPE soft touch button, rubber feet and LED indicator. Optional wall bracket made from clear polycarbonate
ENERGY CONSUMPTION	On average not exceeding 25uAs while in continuous operation at default settings.
CUSTOMISABLE	Colouring, branding, advertising packet and firmware possible
REGULATORY	EC compliant
COUNTRY OF MANUFACTURE	United Kingdom



70 mm
width



35 mm
height



90 mm
length