



Specifications

DISCLAIMER: Specifications may be subject to change.

Operating modes

Burst mode

Data is buffered in flash memory and transmitted over Wi-Fi at the configured transmit interval if Wi-Fi access is available.

Data management

Flash memory

For offline data capture.

2.4GHz Wi-Fi (802.11b/g/n)

For burst transfers at the configured transmit interval.

Battery

Operating time between charges

Up to 24 hours (depending on configured transmit interval)

Charging time

~8 hours

Power supply

- Lithium polymer battery, 3.7V 850mAh
- Custom charging base with USB-C port, 5V 500 mA minimum supply

Sock materials

Active sock

Textile: cotton 62%, nylon 30%, elastane 5%, copper/nylon (metallic) 3%

Dock: Styrene-Ethylene-Butylene-Styrene (SEBS) polymer, nickel-graphite (NiC) silicone rubber

Inactive sock

Textile: cotton 65%, nylon 30%, elastane 5%

Sensed parameters

Pulse rate (PR)/pulse rate variability (PRV)

- Sensor: photoplethysmography (PPG) with signal quality classification (good/acceptable/bad) using AI
- Sample rate: 64 Hz
- Raw BVP data and processed PR and PRV data downloadable as a CSV

Inertial measurement – for movement, activity, and gait

- Sensor: 3-axis accelerometer & 3-axis gyroscope
- Sample rate: 32 Hz
- Sample range: Accelerometer: ± 2 g | Gyroscope: ± 250 dps
- Sample resolution: Accelerometer: 0.06 mg | Gyroscope: 7.6 mdps
- Raw accelerometer and gyroscope data and processed activity data downloadable as a CSV

Temperature

- Sensor: infrared thermopile
- Sample rate: 4 Hz
- Sample range: -20 to 85 °C
- Sample resolution: 0.02 °
- Raw temperature data downloadable as a CSV

Electrodermal activity (EDA)

- Electrode placement: medial longitudinal arch
- Electrode type: knitted copper (metallic)
- Sample rate: 4 Hz
- Sample range: 0.01-100 μ S
- Raw electrodermal activity data downloadable as a CSV

Certification

UKCA (UK)

CE (Europe)

Form factor

Size (sensor)

49.8 (l) x 43.5 (w) x 14.4 (d) mm.

Weight (sensor) 40 g

Min/max. ankle circumference (sock)

18/30 cm.

Min/max. foot size (sock)

13C/14 UK (32/48 Europe, 1/15 US).

Environmental

Temperature range

Operating: 0 to 30 °C | Safe: -20 to 85 °C

Learn more or arrange a trial

www.milbotix.com contact@milbotix.com