

TECHNICAL SPECIFICATIONS *

Acceleration Measurement

Type: tri-axial piezoelectric sensor

Range: ± 3.6 g

Accuracy: $< 3\%$ FS

Bandwidth: 550 Hz

Natural frequency: 5.5 kHz

Data acquisition, control and storage unit

Resolution: 10 bit

Memory: 32 GB

Electrical

Voltage: 7.2 V (rechargeable battery Li Ion)

Current: 28 mA

Mechanical

Mass: 0,036 kg

Dimensions: 78 x 48 x 26 mm

Material: ABS

* Please note that exact specifications may vary.



The PD-Watch is covered by patent.

Biomedical Lab is an initiative concerning the design and development of medical devices for people's health. Two main projects are carrying out: the PD-Watch, a "watch" for patients with Parkinson's disease, and MyVenus, a telemedicine system for home mechanical ventilation. We are in Italy, Basilicata, both in the province of Potenza and of Matera.

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medical devices for people's health



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PD-Watch

Parkinson's Disease Watch

www.biomedicallab.it/PD-Watch

PD-Watch

how to monitor *Parkinson's disease with a watch*



The *PD-Watch (Parkinson's Disease Watch)* is a wearable device to be used in order to support the diagnosis of Parkinson's disease, to monitor the time course of this disease and to evaluate the effectiveness of the current care plan.

The *PD-Watch* is a sensorized watch, worn by the patient, that constantly monitors and records the symptoms of Parkinson's disease during whole day and wherever they are.

FOR A BETTER ASSISTANCE

The *PD-Watch* can be worn for 24 hours a day and does not affect the typical daily activities of patient.

The wearable watch has been specifically designed to monitor the typical and rapid movements of Parkinson's disease. The wearable device contains a tri-axial accelerometer with a MCU, a battery system and a memory support.

MAIN FEATURES

- *Wearable device*
- *Continuous monitoring*
- *Long-term monitoring*
- *24-hours per day information*
- *Easy to use for the neurologist*
- *Easy to use for the patient*
- *Non-invasive*
- *Motor-freedom*