

Physical Activity Tracker

Activ8 QSM220 Professional



Monitor and track a person's physical activity levels or sleep anytime, anywhere.

The **Activ8 QSM220 Professional** is a physical activity monitoring device suitable for use in research, studies, and other professional settings.

The setup, start and stop of a recording can be easily accomplished via a Windows-based software application, making it a fast and user-friendly solution. With the Activ8 software application you can download measurement data and view easy to understand reports.

Activ8 wearable, Bluetooth 5 wireless accelerometers are lightweight, waterproof and offer high-accuracy readings.

Our SDK and professional support make it easy to integrate our sensors into your own connected solutions.

The flexible and modular technology platform is the ideal starting point for tailor-made solutions or products.

Automatic activity classification

Non-wear, sitting, standing, walking, cycling or running.

Accurate & validated

Validated and proven to be accurate for healthy people and specific user groups.

Energy Expenditure (EE)

Energy expenditure measurements in kCal or MET

Easy to use

Simple application to start/stop and visualise measurements. All recording data remains local. Set movement target with clear 'emoticon' feedback on the device.

Activity or Sleep tracking

The same solution can be used as activity tracker when worn on the upper leg or sleep tracker when used on the chest. Continuous monitoring for up to 35 days.

Small, lightweight

Device worn in the pocket, attached with optional legstrap or waterproof sticker/patch

Waterproof IP67

Water and sweat proof (IP67) made of biocompatible materials.

CE certified

CE certified non-medical. Optional: Medical Device certification.



*Preliminary specifications.
Subject to change without notice.*

Content

- QSM220 Professional Physical Activity & Sleep Monitor
- USB cable (USB-A to micro USB)
- Product manual
- Activ8 software application (Windows 10/11 x64)

Optional

- Attachment solutions: legstrap, waterproof sticker (transparent breathable upper leg device fixation) or watch type
- Customizations to the Activ8 software application (functionality, reporting etc.)
- Multi-sensor Bluetooth connected activity & sleep monitoring or motion tracking solutions
- Customized algorithms, verification and validation

Technical Specifications

QSM220 Physical Activity Monitor

- Activity recognition (validated):
 - Upper leg activity classes: non-wear, sitting, standing, walking, cycling, running
 - Chest activity classes: non wear, lying on the side (left or right), lying supine (back), lying prone (chest), sedentary behavior (sitting, standing with low intensity) and high intensity (walking, cycling, running)
- Energy expenditure (validated): kcal or MET per activity class
- Measurement data : accessible as csv file, variable epoch length: 5sec, 10sec, 30sec, 1 min, 5min
- Internal sample frequency: 50Hz
- Store raw XYZ: yes (short interval, optional: long raw data storage)
- Data format: seconds/METs or counts/raw values
- Wearing position: upper leg (in pocket, with leg strap or tape), chest (with strap or tape) or wrist (using watch accessories)
- Technology : 3D Accelerometer, Magnetometer (optional)
- Upgradability: yes (both device and software)
- User interface:
 - Led indicator: 5 customizable RGB LED. Show daily target.
 - Button: customizable function. Mark events
- Connectivity:
 - Micro USB connector : charge port & data sync (Mass storage, CDC, HID interface)
 - Bluetooth LE 5.x:
- Rechargeable battery : 140mAh LIPO
- Operating time (fully charged): > 35 days
- Charge time : < 1 hrs
- Battery low / charge indicator : yes
- Device dimensions [L x W x T] : 38.9 x 24.3 x 10.2 mm
- Weight: 10 g
- Color: Light grey

Activ8 software application

- Measurement setup
 - User Settings: name, date of birth, gender, height & weight for BMR
 - Measurement settings: epoch/interval, data format (MET, raw), wear position
 - Device user interface: on, off, set daily target
- Start/stop measurement & download
- Reporting: basic graphs & reports (customizable)
- Supported OS: Win 10/11 (x64)

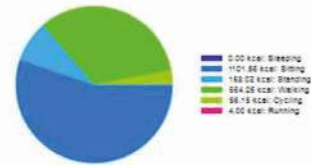
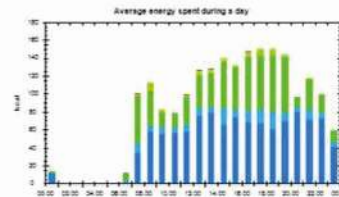
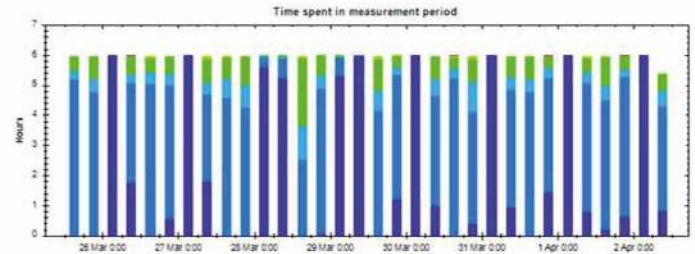
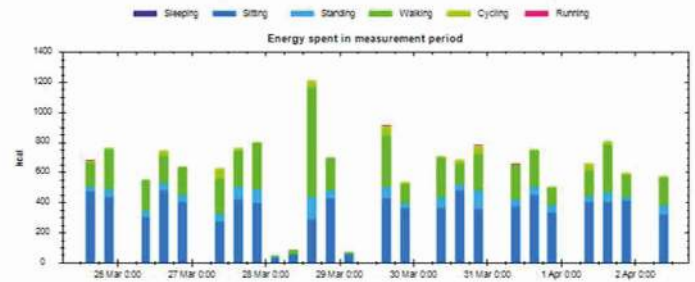
Requirements

To use this device, you will need a computer that has an available USB port and access to the internet. The device is compatible with the following operating systems: Windows 10/11.

Warranty & Certification

1 year. Non-medical CE certification. Optional: Medical Device Certification (Class 1 or 2a depending on the intended use).

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More Information

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