

Enfucell SmartCare patch

PRODUCT DESCRIPTION

Enfucell SmartCare patch is a multisensor device including 1-channel ECG, temperature sensor, and accelerometer with readiness for connecting additional sensors. The patch consists of a disposable battery and electrode patch with a reusable electronics module. The measured data is transferred via Low Energy Bluetooth (BLE) to a hub which controls the operation of the patch, performs basic analysis on the data, and interconnects to upstream information systems.



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FEATURES

General:

- Size: 170 mm long x 45 mm wide
- Thickness: max. 5 mm (electronics module)
- Weight: 14 g
- Disposable battery and electrode patch with a reusable electronics module
- Thin and flexible, fully integrated, disposable 3V battery
- Skin-friendly adhesive and hydrogel
- Temperature range: 25 °C to 42 °C
- Operating time: 1 week
- Allows for sufficient personal hygiene
- Storage conditions: Refrigeration
- Shelf life min. 1 year

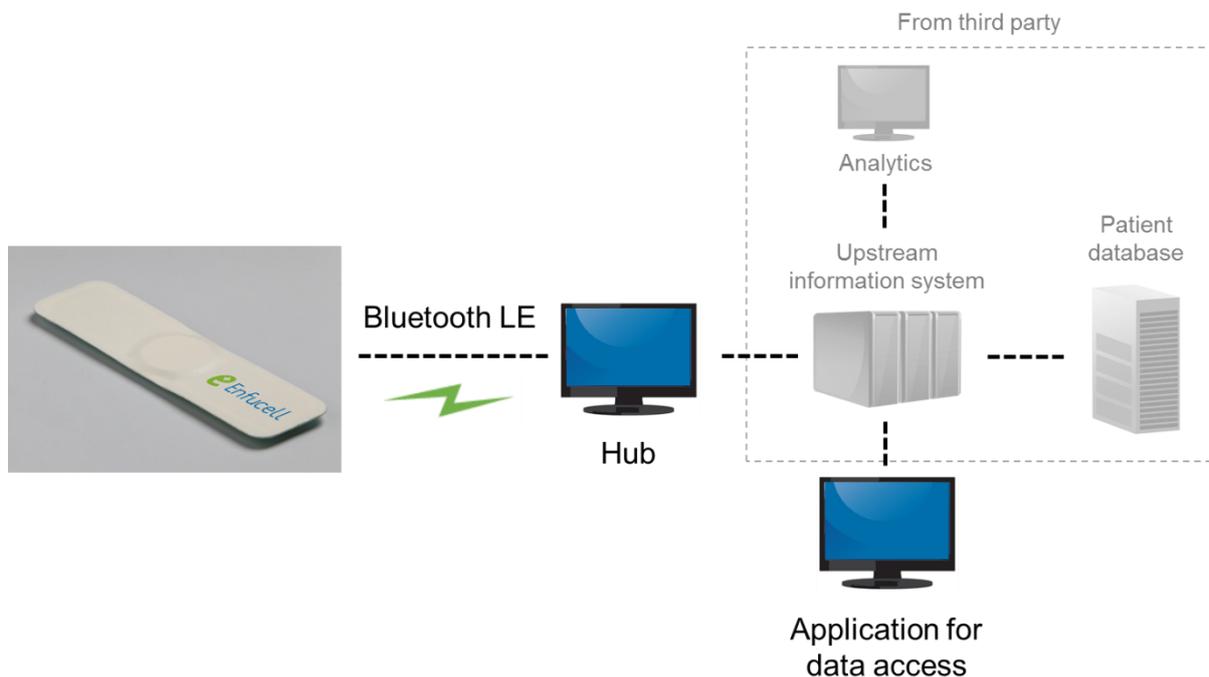
Functional:

- 1-channel ECG
- Fall indication
- Body temperature
- Activity level
- Option for connecting other sensors
- Data memory on patch: 4 hours of buffer memory
- Data transfer via Bluetooth LE
- Transmission frequency: 60 seconds standard

APPLICATIONS

- Home care for the elderly
- Nursing home care for the elderly
- Use in a care facility for the disabled

Data subject to change



The offering includes Enfucell SmartCare patch, a hub, and an application for data access. Measured data is provided to the care operator's upstream information system through a pre-defined data interface. The hub can be a Windows or a Linux workstation, potentially also an Android smartphone or tablet. The app is provided for access to client-specific measurement data with graphs of all measured vitals. Analytics can be provided by a third party.

Service start

The patch is attached on the person's chest. The patch with battery and electrodes is replaced once a week by visiting personnel. Location is then changed to minimize skin irritation.

Smart remote care patch is delivered as calibrated before use. No post in-application calibration is needed.

Alarms

Each vitals measurement will have a window of acceptable values. Global default values are hard-coded. Default values can be personalized by care personnel at service start.

Alarms are given on atypical R-R interval variations and on fall indication. For technical reasons, alarm is given if patch is outside Bluetooth coverage or missing the connection with hub, or if battery power is nearing the end.

Disposal: According to local legislation.

Certificates: European medical device approvals (MDD) and CE marking (pending). Other certificates according to demand.

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