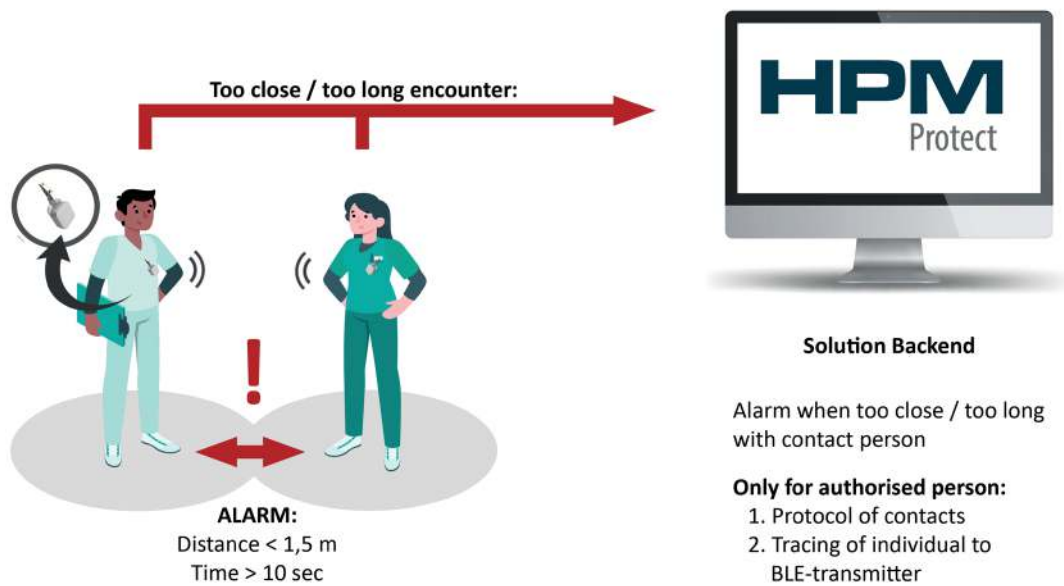# HPM Protect: Social Distancing Warning System
Protection for Employees, Residents and Visitors

Technolgy already 2.000 times in various industries in use

HPM Protect enables nursing homes to accurately identify and inform individuals who have become part of a potential COVID-19 infection chain.

HPM Protect utilises Bluetooth Low Energy Technology (BLE) to **measure distances between individuals and the duration of their contact**. Individuals carry a BLE-transmitter, which automatically registers when other BLE-transmitters come within a predefined safe distance, and for how long. When this happens, a vibration warning is triggered to protect both individuals. Since such encounters are recorded in encrypted, digital form, in the event of an infection HPM Protect allows authorised staff to make conclusions regarding the **chains of contact** – while still complying with legal data protection regulations.

Too close / too long encounter:

HPM Protect

Solution Backend

Alarm when too close / too long with contact person

Only for authorised person:
1. Protocol of contacts
2. Tracing of individual to BLE-transmitter

ALARM:
Distance < 1,5 m
Time > 10 sec

The **installation requirements** are minimal: adapting the individual building merely involves fitting a small number of controllers in locations with a 220V mains connection and access to the LAN or WLAN network.

BLE-Transmitter with Clip

- Records 40,000 'events' – even when not connected to the system
- Automatic function – no manual operation necessary
- Alarm sounds immediately when configured parameters are exceeded (approach/duration/distance)
- Precise and stable – optimised for healthcare purposes
- Both hardware and software are in hands of a German company

HPM Protect: Solution Components and Modules

BLE-transmitter for individuals
- Measures distance
- Gives warning when too close
- Records 40,000 'events'
- Batteries replaceable or rechargeable
- Battery life of approx. 4 weeks
- Warning via vibration/flashing LED

Controller (receiver)
- Reports encounters that are too close or too long to the backend system

Admin
- Via PC and mobile data
- Authorised body can trace BLE-transmitter to the individual affected if there is an infection
- Chains of contact can be identified

Backend
- On-site or cloud-based storage
- Records encounters that are too close or too long
- Evaluates chains of contact

Data Protection

- BLE-transmitters do not record any personal data
- Data regarding encounters that were too close or too long are encrypted and recorded without including any personal data
- Information on location is not recorded
- Tracing of BLE-transmitters to individuals is carried out using an especially secure translation table, which only authorised individuals can access

About Clinaris

With its **HPM** system – **Hospital Process Management** – Clinaris GmbH has developed a digital solution that controls the decontamination process of medical devices and hospital rooms in real time and documents each individual process step. This optimises both processes and staff resources. Additionally, HPM uses live data to pinpoint the exact location, hygienic status and technical status of medical devices, and also monitors servicing and testing intervals. HPM ensures that contaminated medical devices are correctly decontaminated before being reused.

Localisation of medical devices is based on state-of-the-art BLE tracking technology. Experience gained from over 2.000 BLE-tracking installations has been adapted to the requirements of the COVID-19 pandemic and can now be employed to ensure social distancing and track chains of infection.

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