

Vibby^{OAK}

The 1st
fall detector
in Europe



Falls

A worldwide public health concern that primarily affects seniors.

Falls can happen at any time in day-to-day life, and in any room of the house. Age is the main aggravating factor.

+65

Leading cause of accidental death in **over-65s**

37M

Each year, **37 million** falls require medical treatment worldwide

1 hour without help arriving:



Hospitalisations



Physical and psychological consequences



Significant costs for healthcare communities and authorities

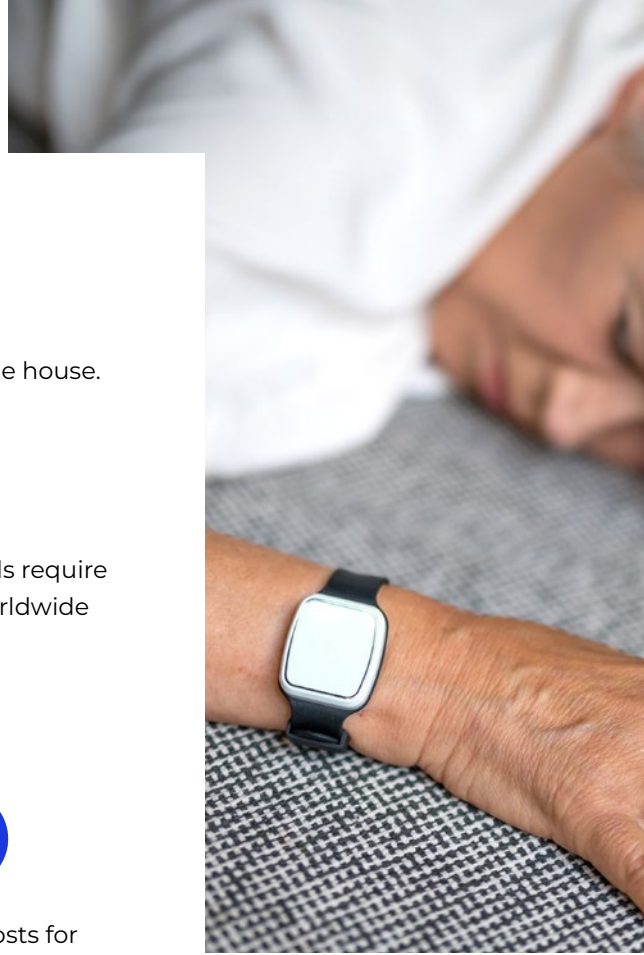
The Vibby Oak

More than 1,5 million people protected in Europe

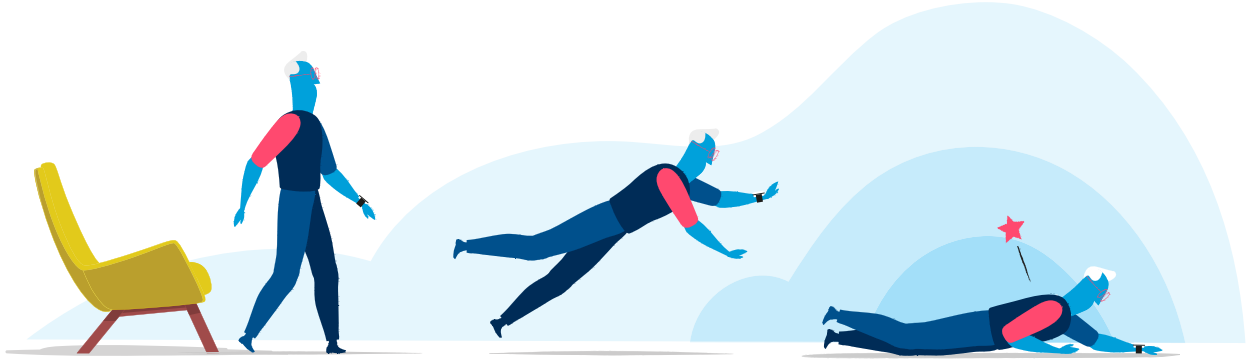
For 15 years, The Vibby Oak has been the 1st wrist and neck-worn automatic fall detector on the market to foster autonomy at home and security in health care facilities.

When a fall is detected, The Vibby Oak will automatically trigger a carephone alarm to the call center or the nursing staff.

With 87% heavy fall detection, it is the most advanced technology on the market and the most proven in Europe. The Vibby Oak is the effective solution to reduce response time in the event of a fall. The wearer maintains his autonomy and his family gains in serenity.



Automatic Fall Detection



1

The algorithm analyses the wearer's activity and movements.

2

The wearer loses balance and **fall heavily.**

3

Heavy fall is a **sudden fall** occurring after a period of normal activity in an upright position. It is followed by a **strong impact** on the floor leading to an **inability to recover to a standing position.**



4

The person is lying on the floor and is unable to get up. **The algorithm analyzes the situation for several seconds***

5

The Vibby Oak notifies the user **by vibrations and LED flashes** that the alarm is about to be sent.

6

The alarm is **sent to the call center** through the **carephone installed** in the user's home.

* Tremors and convulsions are taken into account and do not prevent fall detection. Only regaining altitude for more than 5 seconds will cause the alarm to be cancelled.

Created with telecare actors, to meet their needs steps



Multiple protocols

The Vibby Oak can be used with the transmitter of your choice.



Manual or automatic alarm dismissal

By reducing the number of false alarms, you're giving the wearer peace of mind and encouraging them to wear the product.



Up to 2 years of battery life

Reduce technician travel and maintenance operations.



Customisable

You can choose to wear it as a bracelet or as a pendant. A wide choice of bracelet colors is available.

An easy set-up

The Vibby Oak can be easily set up by using a dedicated mobile application:

- Wearing options: wrist or neck-worn
- Radio protocol selection

The application also displays essential information:

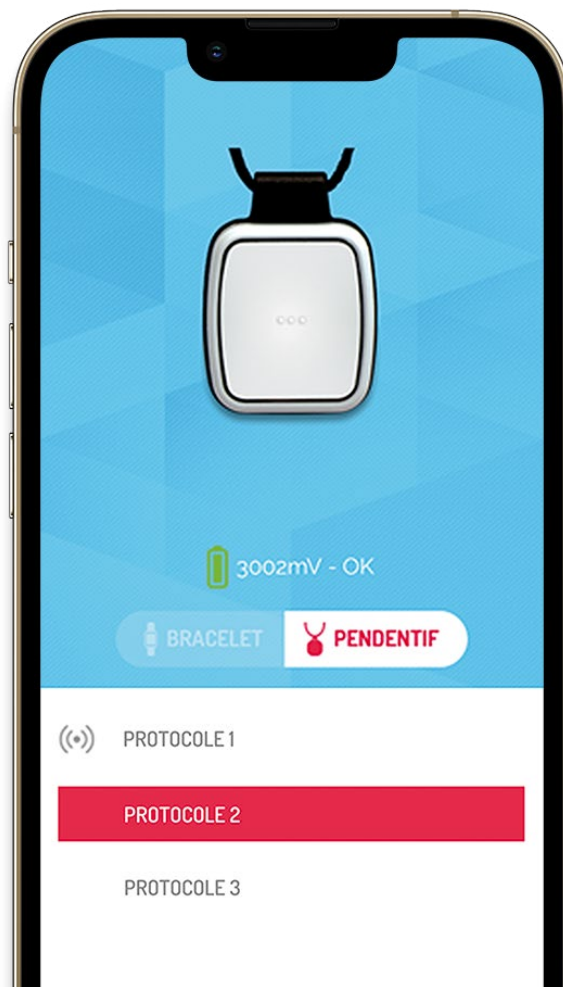
- Battery status
- Vibby Oak serial number for traceability
- Radio ID protocols requiring it



android

For Android users, a temporary Web App is available here:

<https://vibby-oak-config-en.web.app/>



Technical features

Functions

Manual alarm

An evidenced SOS push button is located in the middle of the Vibby Oak. By pressing the push button the wearer can manually raise an alarm whenever he feels the need.

Automatic alarm

A set of sensors and a new algorithm will trigger an alarm automatically in case of heavy fall detection.

Alarm cancellation

If the user recovers to a standing position within 30 seconds after the fall and remains standing, the alarm will be cancelled.

Manual cancellation with sensitive sensor: alarm can be canceled by covering the Vibby Oak with the palm of the hand for few seconds before removing it at vibrations stops.

Design

- Resistance to submersion (IP67 standard)
- Shock resistance: IK04
- Cleaning: only water and soap
- Length: 37mm
- Width: 33mm
- Thickness: 12,7mm
- Weight: 35g
- Hypoallergenic plastic

Radio

- Social alarm band compliant (869,2125MHz and 869,2375MHz)
- Class 1 and Class 2 long range compatible, ISM band
- Bi-directional transmitter/receiver
- Radio range : 300m in open spaces
- ASK, FSK, GFSK modulations ready

Bluetooth™

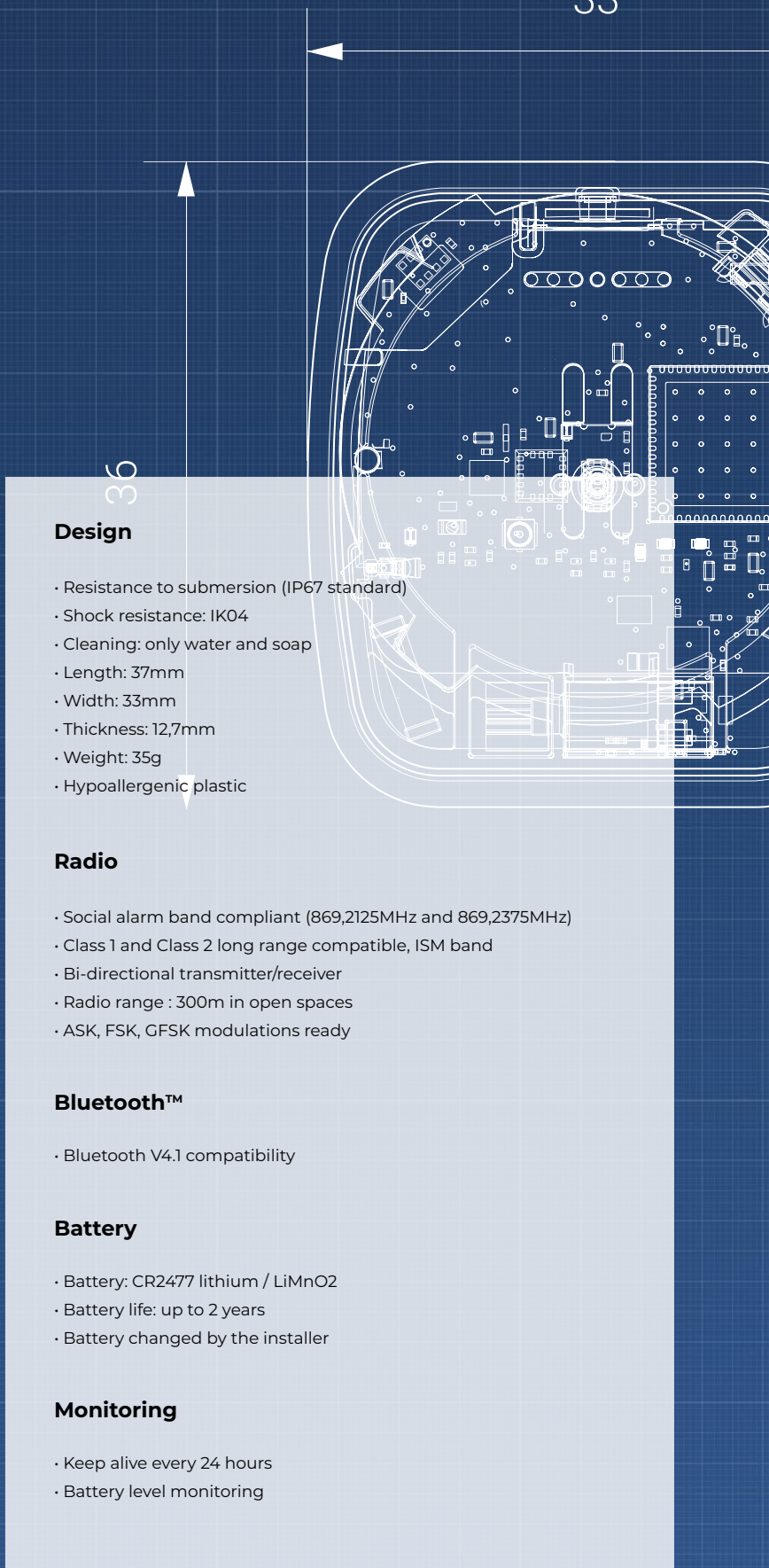
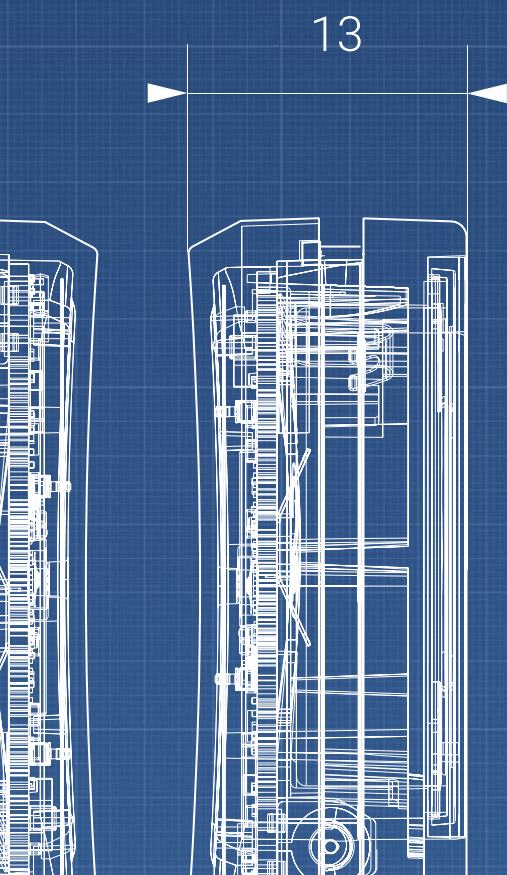
- Bluetooth V4.1 compatibility

Battery

- Battery: CR2477 lithium / LiMnO2
- Battery life: up to 2 years
- Battery changed by the installer

Monitoring

- Keep alive every 24 hours
- Battery level monitoring



As innovation leader, Telecom Design is already on the tracks of **the telecare future!**

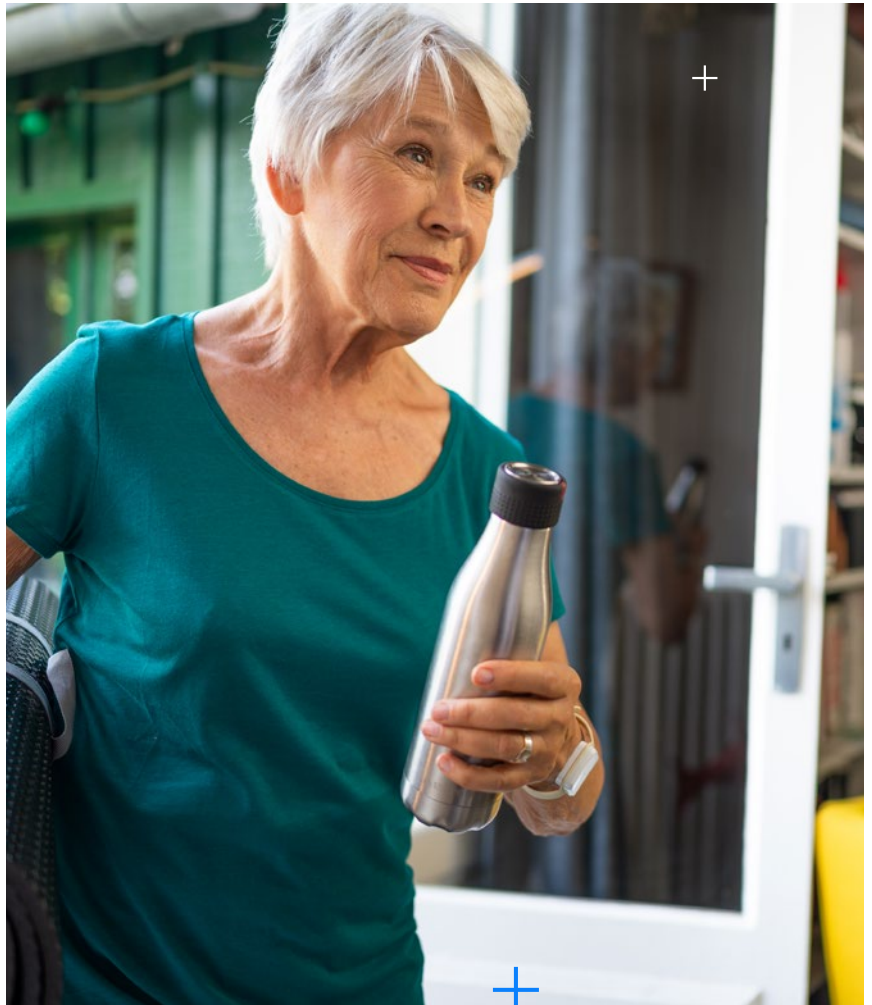
Having been at the forefront of fall detection technology for over 15 years, we are working to overcome two major challenges by 2025.

Protecting seniors wherever they are:

Thanks to our NB-IoT technology, we will soon be able to send alerts both indoors and outdoors, without the need for a SIM card or smartphone.

Preventing falls:

We are developing a fall prevention algorithm that will detect signs of frailty and identify the thresholds at which a fall is likely to occur.



About Telecom Design

Established in 2000, Telecom Design Group is a market leader in developing and providing innovative end-to-end IoT solutions in two fast-growing industries – Smart Home Security and Aging Well. The company products bring unmatched peace of mind to families and business, as well as our seniors, enabling them to live longer in good health.

By now, the Group has become the trusted tech and innovation partner to the world leading service providers in both, Smart Home Security and Aging Well segments.