



The intelligent hardwood floor!



# The intelligent hardwood floor

for optimum room climate

fidbox®

The **fidbox**® is a measurement device equipped with two sensors for temperature (°C) and relative humidity (%). Installed underneath the hardwood floor, it records the essential data of the wood floor and its substrate every 8 hours.



## Sensor 1: Wood measurement

The relative humidity of the wood is measured by sensor 1 in the hollow space above the **fidbox**® (wood humidity = material climate)

Since wood is a hygroscopic material and therefore it adapts to the humidity of the room climate, sensor 1 also determines the relative humidity of the room.

## Sensor 2: Substrate measurement (example: screed)

In the hollow space below the **fidbox**®, sensor 2 measures relative humidity and the surface temperature of the screed, determining its moisture level. (material climate)

The recorded data can be accessed any time on a smartphone by builders, architects, or other users via Bluetooth and an APP. This information is not only important for a healthy room climate, also for the longevity of a hardwood floor.

## Areas of application

The **fidbox**® has many benefits for owners, builders and inhabitants.

People who invests in real estate, expects that the chosen facilities fully meet the planned requirements for many years. From an ecological, economical, and health-related point of view, the **fidbox**® constitutes a compact and interactive safety system for all involved.

### Some practical suggestions:

- Temperature too low – please turn on your heating!
- Temperature exceeded – please lower your heating!
- Floor humidity too low – please humidify the air!
- Humidity exceeded – please ventilate the air!

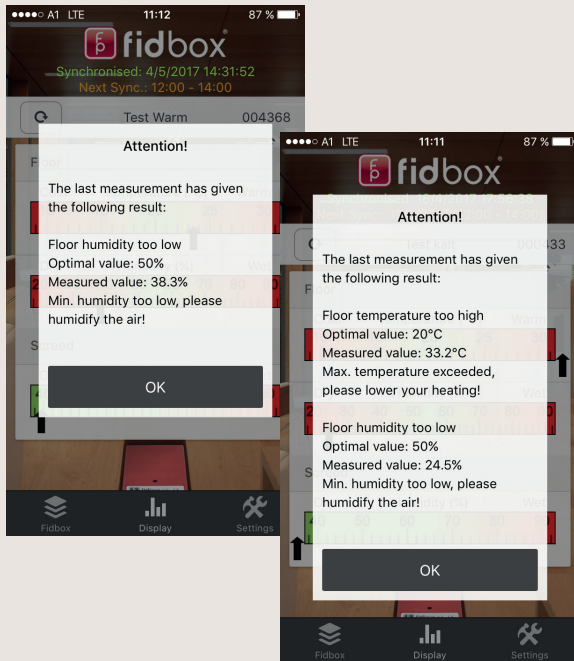
floor protector®

Safe from the ground up.



# The innovative development for better well-being

## Application examples



Using the free **fidbox**®-APP, your customers are always informed about their room climate at an early stage.

The APP gives your customers the possibility to optimally control their room climate.

Your customers will receive suggestions for improvements to obtain a healthy room climate.

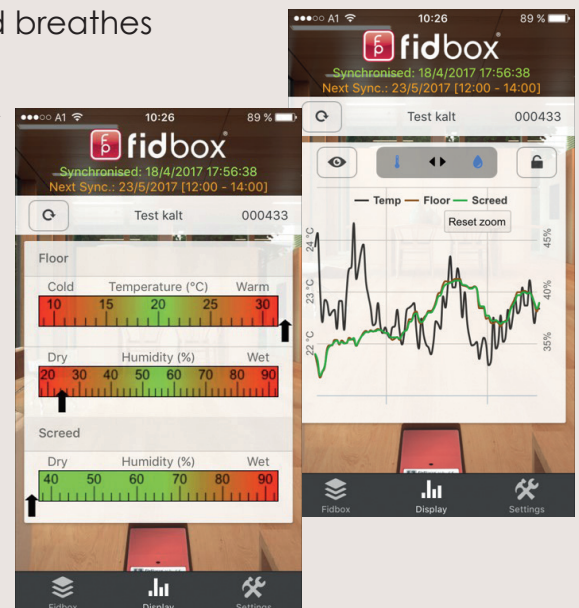
## The advantages

Wood is a “living” product of nature that works and breathes – your new hardwood floor does the same as well.

We have developed the intelligent hardwood floor for you and your customers to make them feel comfortable in their homes, the most important place for their well-being, safety, and health.

### Clear advantages for your customers:

- Healthy indoor climate for better well-being
- Prolongation of your parquet floor life
- Optimization of heating costs
- Information via smartphone and tablet



## The “no-worries” package

You are a professional and lay hardwood floors to your customers' complete satisfaction. Nevertheless – in spite of your best diligence – for whatever reasons, it can never be ruled out that you are confronted with flooring situations that are difficult to explain.

- Excess or too low temperatures (e.g., due to floor heating or floor cooling) in combination with the respective room-climate lead to an increase or decrease of the wood humidity.
- This may cause damage to the hardwood floor.
- Lengthy and cost-intensive causal studies will usually follow.
- These challenges can be easily overcome with the long-term records of the **fidbox**®!



Be prepared and use the **fidbox**® by floorprotector for documented room climate monitoring.

From an ecological and economical point of view, the **fidbox**® gathers important information that can prevent lasting deteriorations and damages.

The **fidbox**® gives you reliable support to make your hardwood floors fit for intense, and daily use, and to keep them protected for many years.

Your contact: