



The following technical datasheet is provided by FidBox.

For further information please either give us a call or visit the manufacturer's website.

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All information is correct at the time of download from the manufacturer.

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[Technology. . . under your feet]



Why fidbox[®]?

- 1 The **fidbox**[®] is an essential and professional approach to determining the consistency of the environmental conditions where a wood floor is installed. This would include every type of wood construction, i.e., solid or engineered and over all types of subfloors including radiant heat.
- 2 The **fidbox**[®] can identify the rooms climate variations at a glance and indicate the need for immediate improvement. The homeowner will get a warning on their phone if the environment needs any adjustments.
- 3 The **fidbox**[®] monitors environmental conditions before, during, and after installation. You will have detailed environmental information at your fingertips.
- 4 **fidbox**[®] gives owners the confidence to maintain their investment by understanding their interior climate.
- 5 Healthy environmental conditions for hardwood floors are the same conditions required for humans. The **fidbox**[®] continuously measures those conditions and alerts the owners when their hardwood floor is outside of those limits.
- 6 Long term data helps in diagnosing current issues and future problems.
- 7 Reliable data that can't be manipulated. These readings are over a long period of time and will provide facts on recommended solutions.
- 8 The **fidbox**[®] can be used wherever there is need for sensitive data to be collected about temperature and humidity. Ideal for use in Hardwood Floors, Sports Floors, Antique Furniture, Valuable Artwork, Storage, and sensitive products during transportation.
- 9 **fidbox**[®] will not interfere with radio frequency or be affected by radio frequency.
- 10 No matter your role in the wood flooring installation, the **fidbox**[®] plays an integral role in monitoring the environmental conditions. This allows for protective and immediate actions to be taken.

How the fidbox[®] works:



The **fidbox**[®] comes from the factory pre-programmed to measure temperature and humidity from two separate sensors every 8 hours giving a historical record of the rooms environment.



Simply router out the back of the hardwood flooring, peel off the self-stick **fidbox**[®] and place it in the wood flooring.



The installation is simple and the **fidbox**[®] is invisible to the naked eye. It takes separate readings of the temperature and relative humidity on the material surface of the subfloor.

Visit www.fidbox.net for more information.

How to interpret the data:



CONSUMER:

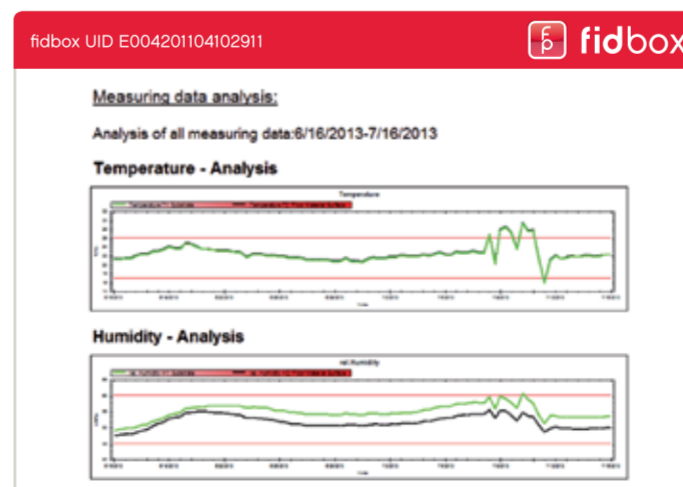
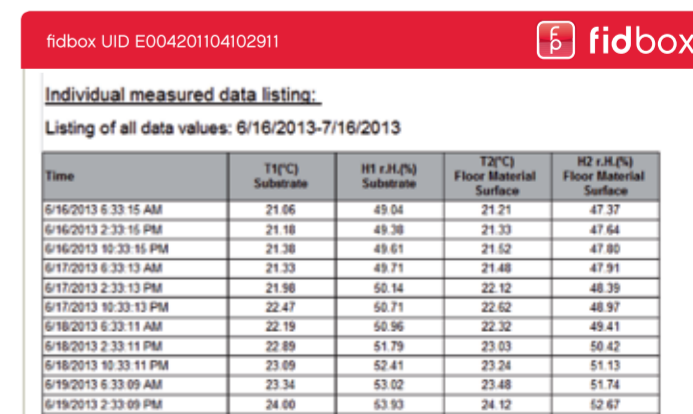
Consumers can easily download the free app for iPhone or Android based smartphones. The app will allow the consumer to understand how their environment is affecting their wood floor.



PROFESSIONAL:

By using a PC compatible laptop, the **fidbox**[®] V6 reader and the **fidbox**[®] software stored data, can be downloaded at any time by the professional with the V6 reader. This evaluation will help determine what happened and will aid in diagnosing a solution quickly.

If necessary, the professional with the V6 reader can take the readings from the **fidbox**[®] back to the date of the installation to determine past temperature and relative humidity readings at the floor level.

fidbox UID E004201104102911

Individual measured data listing:
Listing of all data values: 6/16/2013-7/16/2013

Time	T1(°C) Substrate	H1 (%RH) Substrate	T2(°C) Floor Material Surface	H2 (%RH) Floor Material Surface
6/16/2013 6:33:15 AM	21.66	49.04	21.21	47.37
6/16/2013 2:33:15 PM	21.18	49.38	21.33	47.64
6/16/2013 10:33:15 PM	21.38	49.61	21.62	47.80
6/17/2013 6:33:13 AM	21.23	49.71	21.48	47.91
6/17/2013 2:33:13 PM	21.98	50.14	22.12	48.39
6/17/2013 10:33:13 PM	22.47	50.71	22.62	48.97
6/18/2013 6:33:11 AM	22.19	50.96	22.32	49.41
6/18/2013 2:33:11 PM	22.89	51.79	23.03	50.42
6/18/2013 10:33:11 PM	23.69	52.41	23.24	51.13
6/19/2013 6:33:09 AM	23.34	53.02	23.48	51.74
6/19/2013 2:33:09 PM	24.60	53.93	24.12	52.67

floor protector[®]

Safe from the floor up.

The **fidbox® V6** developed and made by floorprotector, provides you with reliable information about the environmental conditions of your hardwood flooring. The **fidbox® V6** is installed under the flooring and measures, from below, temperature and humidity fluctuations in the floor construction and subfloor. The saved data can be wirelessly read out at any time from the **fidbox® V6** without having to remove it of the flooring. The readings of the stored data can be done by the fidbox® V6 reader (see data sheet fidbox® V6 reader).



Specifications	
Type	active
Frequency	2.4 GHz ISM-Band
Protocol	Bluetooth Low Energy
Read Range	in open surroundings in installed conditions
	up to 10 m up to 6 m
Dimensions	95.5 x 52.5 x 7 mm
Weight	30 g
Battery life expectancy*	up to 6 years (with 8hr measuring interval)
Memory storage capacity	up to 1.048.592 records
Measurement interval	freely configurable from 1 minute to 7 days (preset at 8 hr)
Temperature measurement range	-20°C up to +65°C
Battery**	Ultralife Thin Cell 3-Volt Lithium Cell
Storage temperature	at room temperature dry and frost-free (+17°C up to +23°C)
Operating temperature	0°C up to 55°C
Certification	EN 60950 / IEC 60950, ETSI EN 300 328 V1.8.1, EN 301 489-1 V1.9.2, EN 301 489-17 V2.2.1, EN 61000-4-2: 2009, EN 61000-4-3: 2006 + A1: 2008 + A2: 2010, EN 62311, 1999/519/EC FCC-ID 2ADQTV6 IC-ID 12568A-V6

Specifications Sensors*	
Humidity	Precision Resolution Repeatability
	up to +/- 2% rF 0,04% rF up to +/- 0,1% rF
Temperature	Precision Resolution Repeatability
	up to +/- 0,3°C bei +25°C 0,01°C up to +/- 0,1°C

* depending on the measurement interval settings, measurement frequency and storage conditions

** the battery does not contain hazardous voltage and/or energy level.

Fidbox App

version 3.1

for iOS and Android

Requirements for Android:

Bluetooth 4 and Android version 4.1 or newer

Requirements for Apple iOS:

Bluetooth 4 and iOS version 7.0 or newer

The new export feature requires the free app
“Adobe Acrobat Reader” (Android and iOS).

Frequently Asked Questions

What is synchronisation?

Synchronisation is the procedure of reading out the recorded measurement data of the Fidbox. Additionally the selected daily time interval will be updated and the time of the Fidbox will be matched to the app (system time).

When is synchronisation possible?

For a successful synchronisation Bluetooth must be turned on (device settings) and the Fidbox must be "awake". In order to provide a Fidbox runtime of 6 years, the Fidbox is "sleeping" at specific times depending on the active mode:

8 minute mode: This mode is active at delivery and after each reset by magnet. Every 8 minutes the Fidbox wakes up for about 30 seconds. During a 30 seconds period the Fidbox is active and the app can perform a synchronisation.

Daily mode: This mode is activated automatically after each synchronisation. The Fidbox wakes up daily in a selectable two-hour window every 2 minutes for about 30 seconds. During a 30 seconds period the Fidbox is active and the app can perform a synchronisation. The daily mode extends the Fidbox runtime by 30% and more.



Frequently Asked Questions (continuation)

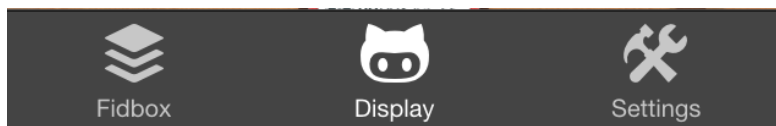
How can I start the synchronisation?

1. By registering a new Fidbox: A new Fidbox can only be registered, if it is active and in range. During the registration process the first synchronisation is performed.
2. Automatically: If the Measurement Data Screen is visible during the selected two-hour window, the app automatically starts the synchronisation process. The selected Fidbox must be in range for a successful synchronisation.
3. Manually: This synchronisation method is usually used by the flooring installer during installation of a Fidbox (see section 5).



The three main screens

The three main screens of the app can be navigated to at all times, using the buttons in the bottom section.



The Fidbox button takes you to the Fidbox Management Screen.



The Display button takes you to the Measurement Data Screen.

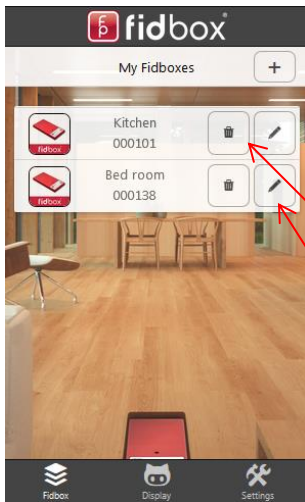


The Settings button takes you to the App Settings Screen.

1. Fidbox Management



Once you have clicked on the “Fidbox” button, you are navigated to the Fidbox Management Screen that shows a list of all registered devices in your user account.

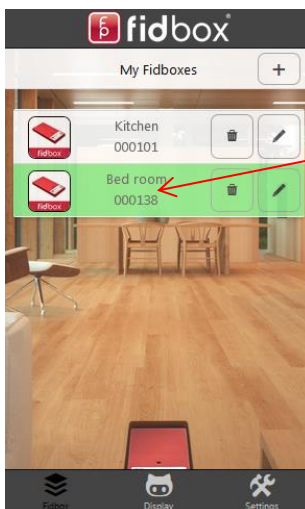


By clicking on the plus symbol in „My Fidboxes” you can register a new Fidbox (see section 4).

Attention: While a Fidbox is registered, it can not be registered by another user!

A Fidbox can be removed by clicking on the trash can.

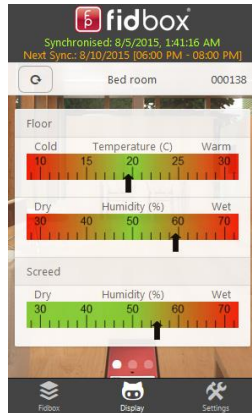
Fidbox settings can be edited by clicking on the pencil.



You can select a Fidbox by tapping it once.

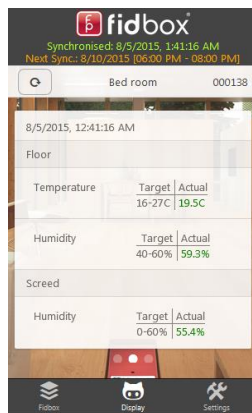
Once a Fidbox has been selected, it changes colour and you will be automatically navigated to the Measurement Data Screen.

2. Measurement Data



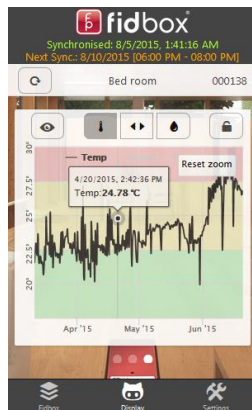
After clicking on the display button you will see the measurement data screen.

The measurement data screen shows temperature readings in floor and humidity in floor and screed. The data shown is taken from the most recent measurement of the Fidbox and is visualised in coloured scales.



By swiping the scales screen from right to left you will get the detail view screen. This screen shows the most recent measurement taken by the Fidbox.

The data is displayed in numbered values, showing the exact temperature/humidity (Actual) and the specified boundary values (Target). Exceeded values are displayed in red.




By swiping the screen once again from right to left you get the historical data readings.

More on how to use this screen is in section 7 “Historical Data”.



2. Measurement Data (continuation)

Top section



The screenshot shows the top section of the fidbox interface. It features a dark header with the fidbox logo and the text "Synchronised: 8/5/2015, 8:41:16 AM" and "Next Sync.: 8/10/2015 [06:00 PM - 08:00 PM]". Below the header is a light-colored bar with a circular refresh icon, the text "Bed room", and the serial number "000138".

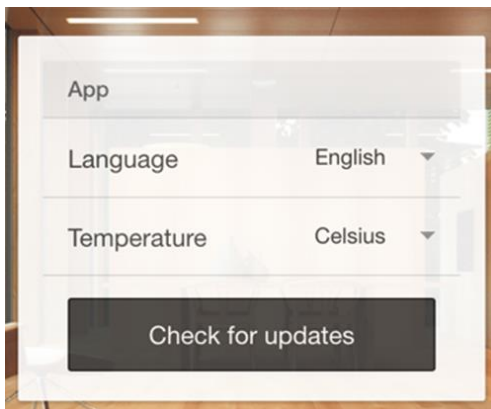
Annotations with red arrows point to the following elements:

- Manual Synchronisation Start (points to the refresh icon)
- Name of the selected Fidbox (points to "Bed room")
- Serial number of the selected Fidbox (points to "000138")
- Date and time of last synchronisation (points to "Synchronised: 8/5/2015, 8:41:16 AM")
- Date and time of next possible synchronisation (points to "Next Sync.: 8/10/2015 [06:00 PM - 08:00 PM]")

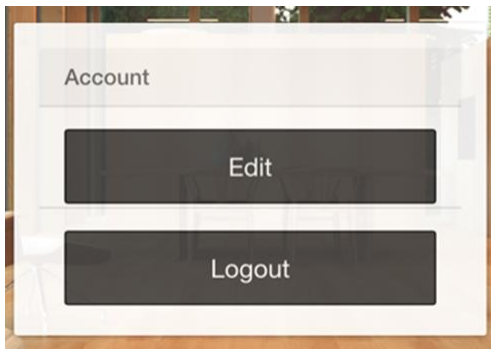
3. App Settings



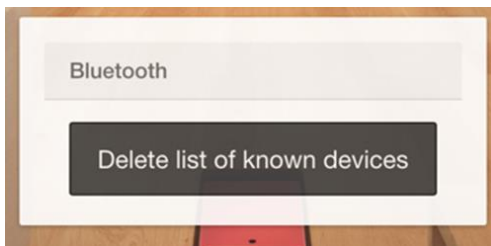
After clicking on the Settings button you are navigated to the app settings screen, where you can change the settings of the App.



- ← You can select your preferred language.
- ← You can change the temperature unit to Celsius or Fahrenheit.
- ← You can search for updates. You will be asked if you really want to install the update.



- ← By clicking the edit button in the account section, you can change your account details including your password.
- ← By clicking the logout button you will log out and automatically navigate to the login screen.



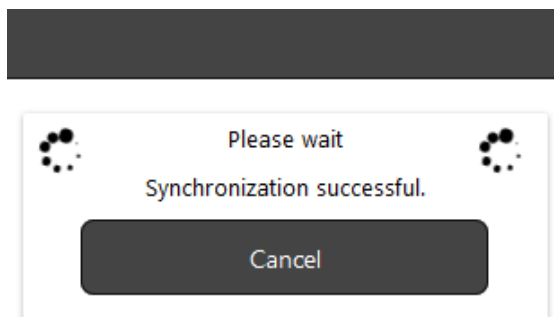
- ← This button is only important for the iOS version of the app. If there are problems with making a connection to a specific device, you can reset the list of paired Bluetooth devices, which can help you to synchronize successfully.

4. Registering a Fidbox

Cancel		Connect	
Fidbox			
Fidbox Nr.	000123		
Name	Living Room		
Synchronisation time management			
Start time	9 h	0	min
End time	11 h	0	min

By clicking the plus symbol in „My Fidboxes” on the Fidbox Management Screen you can register a new Fidbox:

1. Fill out Fidbox serial number, name and the synchronisation interval you want to use.
2. Press Connect.



Once you have pressed “Connect” the app will search for the Fidbox and will make the first synchronisation. Be patient until the synchronisation has been successfully completed.

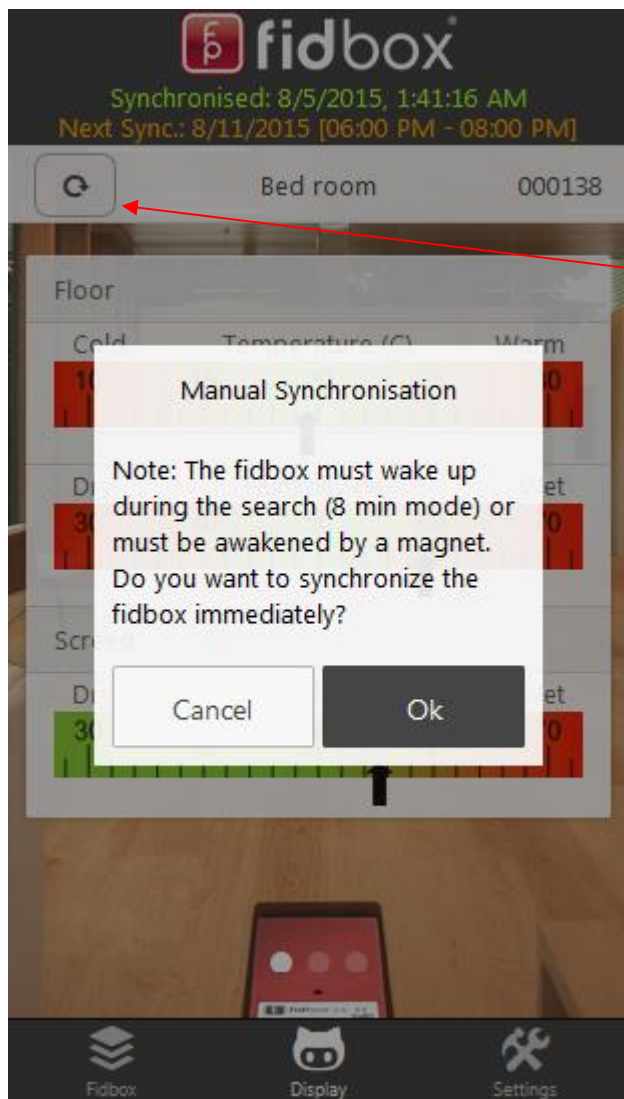
4. Registering a Fidbox (continuation)

Cancel		Save
Floor		
Manufacturer	Sonnberg	▼
Product	Eiche markant LHD	▼
Floor treatment	lacquered	▼
Room		
Size (m ²)	15	⬆️⬇️⬆️
Height (m)	3	⬆️⬇️⬆️
Nr. of windows	1	⬆️⬇️⬆️
Floor heating	<input checked="" type="checkbox"/>	
Address		
Street	Teststreet	
House nr.	1	
Stair nr.	2	
Top nr.	3	
Postal code	3476	
City	Cupertino	
Country	USA	
Nr. of rooms	4	⬆️⬇️⬆️
Size (m ²)	120	⬆️⬇️⬆️
Comment	This box is located at the ...	

3. After the first successful synchronisation you can enter further details about the Fidbox.

4. Fill-out and click "Save".

5. Manual Synchronisation of a Fidbox



This synchronisation method is usually used by the flooring installer during installation of a Fidbox.

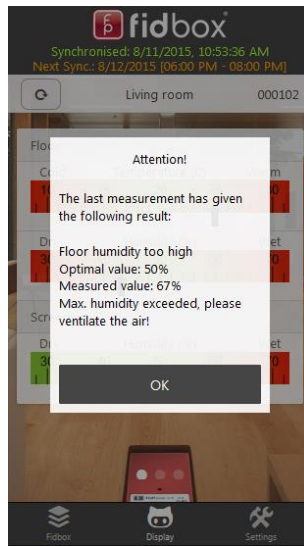
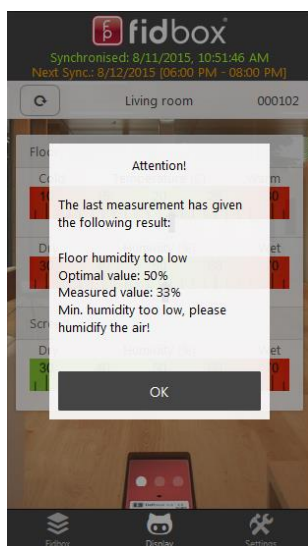
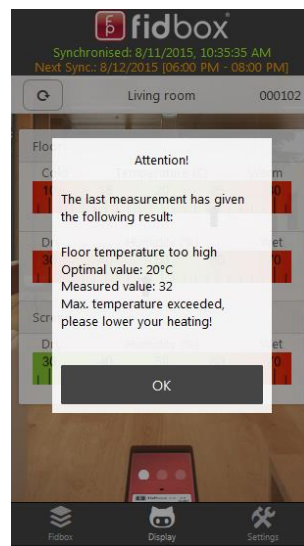
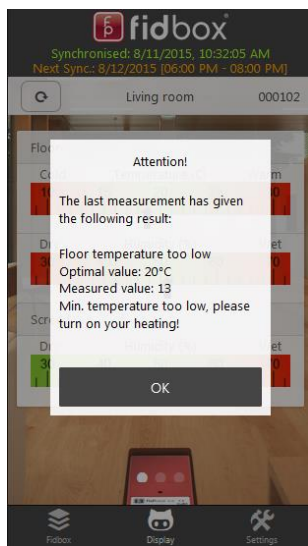
After you have selected a Fidbox you can click on the manual synchronisation button. The synchronisation process will start after confirming a prompt.

ATTENTION: After the registration the Fidbox automatically changes from 8 minute mode to daily mode. I.e. you can only manually synchronize during your selected two-hour time window or by using a magnet.

6. Fidbox Warning System

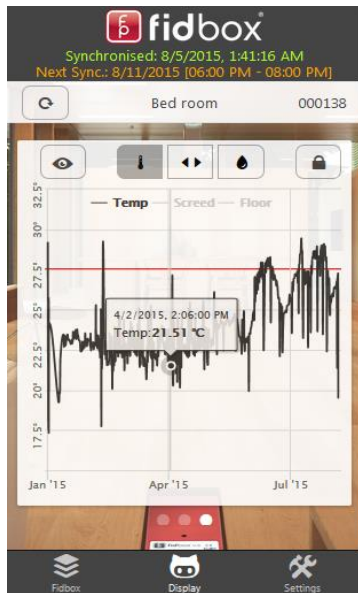
After a successful synchronisation, the app will inform the user about possible warnings regarding the floor-temperature or humidity. Furthermore it will provide a simple tip, about what the user can do to improve the situation.

These are the four possible scenarios:



7. Historical Data

The data can be displayed in two different chart-views.



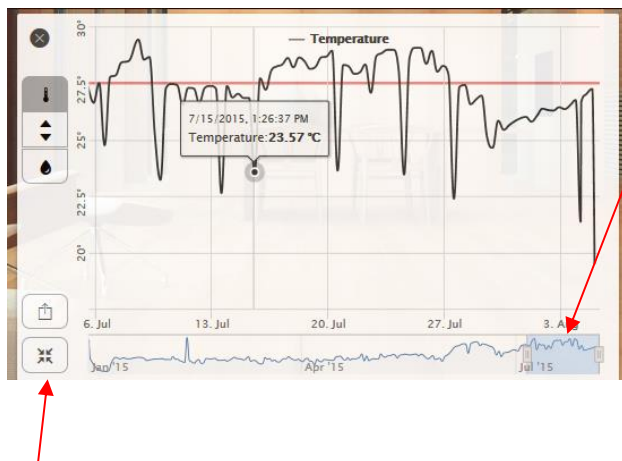
1. Portrait chart view (small chart):

You can easily switch between temperature and humidity by clicking on the respective symbols or . By clicking on the middle symbol temperature and humidity are displayed simultaneously.

If you touch the lines (points) you get detailed information about the measurement points.

The red lines visualise the boundaries for the currently shown value.

Generally the portrait view is not practical for detailed analysis, only for a quick look at the measurement data. If you want to have a better look, switch to the landscape chart by clicking on the button.



2. Landscape chart view (big chart):

The bottom part is the „navigator“: It always shows you the complete history. The blue part is the area you see above (big chart). You can drag the blue part and the big chart will be updated. You can also change the vertical start and end line of the blue part to change the view of the big chart.

Furthermore you can export the currently selected time range of your data to a pdf-file by clicking the button (see next page).



Technology under your feet

fidbox® Installation Record

fidbox Serial Number:		fidbox Installation date:	
(After completion, E-Mail a copy to the Fidbox supplier, builder, architect and inhabitant for future reference)			

PROJECT/CUSTOMER INFORMATION	
Project ref:	
Customer name:	
Project address:	
Room Ref./Name:	
Type of project	<input type="checkbox"/> Commercial <input type="checkbox"/> Residential <input type="checkbox"/> New construction <input type="checkbox"/> Remodel

FLOOR CONSTRUCTION DETAILS				
Location in building:	<input type="checkbox"/> Basement	<input type="checkbox"/> Ground floor	<input type="checkbox"/> 1 st floor	<input type="checkbox"/> Other:
Sub-floor construction:	<input type="checkbox"/> Plywood	<input type="checkbox"/> Subfloor	<input type="checkbox"/> OSB	<input type="checkbox"/> Other:
Moisture barrier:	<input type="checkbox"/> yes	<input type="checkbox"/> no		
Installation method:	<input type="checkbox"/> Adhesion	<input type="checkbox"/> Float		
Underfloor heating:	<input type="checkbox"/> Electric	<input type="checkbox"/> Water		
Cooling system:	<input type="checkbox"/> A/C			<input type="checkbox"/> Other:
Product type:	<input type="checkbox"/> Solid T&G	<input type="checkbox"/> Engineered	<input type="checkbox"/> 6-10mm	<input type="checkbox"/> Other:
Supplier name:				
Product name:			Wood Specie:	
Manufacturer:			Product Classification:	
Panel dimensions:	Width	Length	Thickness	Wear layer thickness

INSTALLER DETAILS	
Installers name:	
Address:	
Contact person:	E-Mail Address:
Telephone #:	Mobile #:





fidbox® Installation Record

LOCATION OF FIDBOX

Room sketch with measurements – location of fidbox with measurements

*The fidbox should be installed in the center of room - *Do not install under rugs or furniture

REMARKS

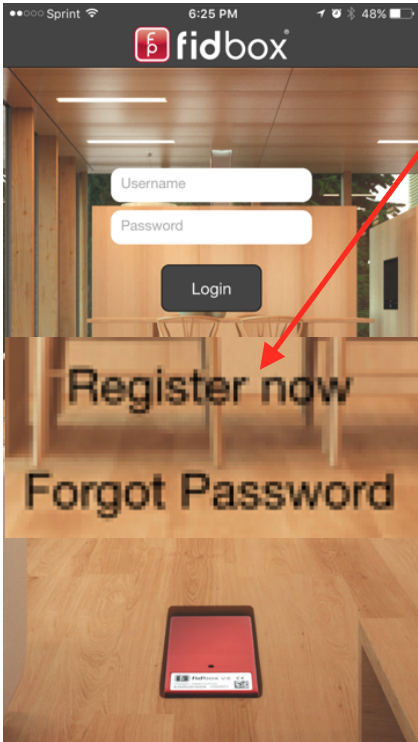
Name: _____ Date: _____





Fidbox
FP Floor Protector GmbH

2



3

Cancel	Save
Account	
Username	
Password	
Verify password	
Email	
Additional information	
First name	
Last name	
Address	
Street	
House nr.	
Stair nr.	
Top nr.	
Postal code	
City	
Country	
Nr. of rooms	0
Size (m ²)	0
Comment	

www.fidbox.net

1. Choose your operating system
2. Download the app
3. Register your Fidbox by entering a Username (typically the wood flooring owner's last name) and the password (typically the address of the project e.g.. 271 main st, password would be 271)
4. Touch the + sign to add the Fidbox
5. Enter Fidbox Number (serial number typically 6 digits).

6. Choose the Synchronization time management; this two hour time frame saves on battery life. A manual sync will require a magnet to pass over the Fidbox to place it into communication mode.

7. After all fields are complete you will be able to manually sync your Fidbox with a magnet. The Fidbox will count down from 900 seconds until it syncs.



7



4

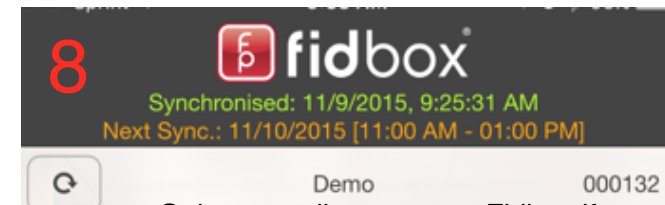
Cancel	Connect
Fidbox	
Fidbox Nr.	
Name	
Synchronisation time management	
Start time	6 AM h 0 min
End time	8 AM h 0 min

5

6



8. Manually sync by swiping a magnet over the Fidbox then press this button.



8

Only manually sync your Fidbox if you need an immediate data download or you could cause a reset of "App Sync time settings" back to the factory settings! These can be adjusted again to your personal settings by the next sync.