

# User's Manual



## Fidbox V.5 USB Reader V1.0

**FW: V 1.0**



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# Version Index

Version	Date	Author	Description
1.0.0	01.05.2013	SM	Initial document
1.0.1	06.05.2013	SM	Additional FCC Information



# 1 Product description

## 1.1 General

The **fidbox®** is a monitor for temperature (°C) and relative humidity (%) as well as a data log for long-term data recording all in one, which is concealed in the hardwood flooring itself. The data stored therein can be read at any time by wireless transmission and allows the determination of the degree of moisture in the screed and in the hardwood flooring by vertical measurements. This information is not only pertaining to the indoor environment, but is especially important in the event of damage as it provides understandable facts.

The **Fidbox V.5 USB Reader V1.0** is designed for communicating with Fidbox V.5 only. Setting Fidbox configuration, writing status bytes and reading stored measurement values can be done by using the reader with any Fidbox desktop or Fidbox mobile software. On the one hand the device communicates with Fidbox V.5 over a 2.45 GHz proprietary air interface and on the other hand over USB 2.0 to any host controller interface. A virtual COM port driver is required and must be installed before using the reader. Simply plug the device into the USB port on any PC or handheld device and start transferring your actions.

## 1.2 Technical data

Carrier	2.45 GHz
Protocol	proprietary
Number of channels	1
Output power	max. 0 dBm
Power supply voltage	5 V DC (+/- 10%)
Current consumption	max. 25 mA @ 5 V DC
Ambient temperature	-30°C to +60°C
Weight	25 g
Dimensions (W x H x D)	71 mm x 23 mm x 9 mm
Baud rate	115200 B/s, 8-N-1 (Virtual COM Port)
Interface	5 V USB



## 1.3 Driver Installation

### 1.3.1 Fidbox Desktop or Fidbox Mobile Software

Prior to installation of any Fidbox desktop or Fidbox mobile software version make sure that you check the respective system requirements. Execute the delivered Windows installer package and follow the install manager instructions. After successful software installation the programs shortcut can be found in the start menu. Virtual Com Port FTDI driver to run the USB Reader device is installed automatically during the main setup. If any problem with different computer architectures exists install the driver independently by following the next steps as described below.

### 1.3.2 Independently Driver Installation

Specific virtual COM port drivers can be downloaded from the following manufactures website URL:

<http://www.ftdichip.com/Drivers/VCP.htm>

Click on the right version of processor architecture what you are using on your machine. Download the correspondent driver and then save this file to a temporary directory on your computer. Open the system control on your computer which can be found in the start menu. Start the device manager and double click on USB Serial Port in the connection tab. Open the driver tab and then click on driver update. Follow the given instructions and select the prior defined temporary directory to install the diver manually.

If you still have problems or need more information please do not hesitate to contact our floor protector office [www.floorprotector.at](http://www.floorprotector.at).



## 1.4 Certificates

### 1.4.1 EMC

The fidbox has been tested and found to comply with the following test standards:

- EN 301 489-1 V1.8.1 :2008
- EN 301 489-17 V2.1.1 2009
- EN 61000-4-2 :1995 + A1:1996 + A2: 2001
- EN 61000-4-3 :2006

### 1.4.2 EMI

The fidbox has been tested and found to comply with the following test standards:

- ETSI EN 300 328 V1.7.1 :2006-10

### 1.4.3 FCC

NOTE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

