QUICK START GUIDE

ekey home CP DRM Access system with fingerprint scanning Europe's # 1 for fingerprint print access solutions



1 Note on this document This quick start guide is not subject to updating. Subject to optical and technical modifications, any liability for misprints

801347 ID15/46: Version 2 excluded.

2 Intended use

The ekey home system consisting of ekey home finger scanner, ekey home control panel and ekey power supply is a biometric access control system available in different hardware makeups and component combinations. It captures the unique features (minutea) of the fingerlines, which are then compared to the master templates saved in the finger scanner. To authenticate a finger successfully, a certain degree of identicalness (threshold) has to be reached. Based on this, a given switching actuator is activated (relay output situated on the control panel). The system has been primarily developed for opening front doors, apartment doors, garage doors, etc. in a residential, corporate and limited industrial environment. It has to be installed in a fixed position, and in accordance with the accompanying mounting instructions and wiring diagrams.

3 Product liability

In the below listed cases, the security, the protection and the flawless operation of the device may be impaired. The liability for the operability of the equipment and its safe operation is transferred to the operator / administrator / user:

- The device is not operated, maintained and cleaned in accordance with the espective manual.
- The device is used outside of the application area specified herein, e.g. automotive applications, hazardous areas, safety-critical applications (thereat to life r physical condition).
- The operator carries out unauthorized changes on the devices. The device ist not operated with the recommended voltage supply (safety extra low
- voltage SELV). The system components are not connected electrically as stipulated in the respective wiring diagram

4 Start-up

Before you start programming the system with the help of this quick start guide, the system must be mounted and wired according to the mounting instructions and wiring diagram supplied with the device. Please follow the steps below:

1.) Make everything you need ready to mount the devices as described in the mounting instructions supplied with the devices.

2.) Wiring

Do not connect the system to the mains yet! The electrical connection of the system can only be carried out by a specialist!

Connect the wires as described in the ekey home wiring diagram supplied with the devices

3.) Check the wiring.

4.) Conclude mounting the devices. Close all the device housings which you have had to open in order to be able to proceed with the wirina

5.) Read carefully the following chapter

"5 Operating the finger scanner". The correct operation (i.e. swiping the finger over the sensor) of the fingerprint scanner is decisive for the proper functioning of the whole system. Also see the short movie in the "Tips & Tricks" folder on the DVD supplied with the product.

6.) Connect the power supply to the mains. The electrical connection of the system can only be carried out bv a specialist!

The <u>ekev home CP DRM</u> displays the language selection



The ekey home finger scanner indicators are as follows:



7.) Now start at point A: INITIALIZING THE DEVICES of "Programming the system".

S Operating the finger scanner

5.1 Function of the finger scanner

The function of the finger scanner is to capture and analyze the image of your finger, and then compare it with a reference template. Which part of your finger should be captured



A finger scanner works like a camera. It makes a picture of the bottom side, the papillary lines, of your finger's third phalanx. However, this picture must be of good quality, so that physical access can be granted whenever necessary.

Imagine you wish to make a picture of someone, and this person

- keeps fidaettina
- runs by and you try to make a picture of him at that exact moment
- hides half of his face behind a tree
- etc. What do you think these pictures will look like? On some of the pictures you will not even be able to recognize the person.

The finger scanner works in the same way. The finger scanner can only read all the information contained in your finger, and consequently open your doors securely and reliably, if you move your finger down across the sensor evenly and in the right position

Let us now look at where you should place your fingers and at which speed you should move them across the sensor, so that the "pictures" of your fingers are perfect.

5.2 The finger recess – the control element



The finger recess allows to place the finger correctly so that a finger picture of good quality can be captured. It actually is the control element and consists of pin point - sensor right and left recess edges.

6. Programming the system with the ekev home CP DRM

6.1 Function of the control panel

The function of the <u>ekey home CP DRM</u> in <u>ekey home</u> is to program and parametrize the system. Using the

- LCD display and the
- 4 buttons,

you can

- register users and enroll their fingers
- delete users
- enter the security code
- change the security code
- change the relay switching times
- reset to factory settings
- ...

The menu navigation is intuitive and very easy. You will find step-by-step detailed explanations of each specific menu function below.

5.3 Operating correctly the finger scanner

Place the middle

of your third phalanx directly on the finger recess pin point.



Ideally, when positioning your finger on the finger recess, stretch the remaining fingers, holding them close to the "swiping" finger. This helps keep the "swiping" finger

5.4 What you should not do



Place your third phalanx higher than the pin point

Not place your finger in the middle of the finger recess, or not place it parallel to the finger recess edges.





6.2 Controls and their symbols

The LCD display guides you through the menu, displays status information and allows you to make specific settings.

RIKKTI Relay Cekey Input 0 : 0 (ESC) 🖉 🗮 23456 7891011

The **OK** button allows you to register (ок) values and move to the next menu level.

- The down arrow / right arrow button \searrow allows you set values and navigate in the menu
 - The up arrow / left arrow button allows you to set values and navigate in the menu.
- The ESC button allows you to exit a (ESC) menu level or to cancel entries.





Lay your finger straight and flat on the finger recess.



BE SURE to place your finger exactly in the middle of the area between both finger recess edges.



Take care to position your finger as flat as possible over the finger recess.

Now without changing the inclination of your finger, move it down across the sensor (the entire hand). Take care to swipe your finger at the right speed. BEWARE: The entire movement (swipe) should take about



1-1,5 sec.

If you swipe your finger too fast, then the status LED on the pin point will light up red.

Do not modify the position of the finger phalanges during the swipe (e.g. by bending the third phalanx).

There is no need to exert any stronger pressure. Move your finger across the sensor as if you would wipe bread crumbs off a table





Rotate your finger in the finger recess.



Place your finger at a too steep angle with the finger recess.

If you move your finger across the finger scanner in one of the ways mentioned here, then the scanner will not be able to extract the information it needs about your finger image. It will therefore not function properly: Poor recognition performance: You will have to swipe your

finger several times across the sensor before being able to induce the door to open.

Reference templates cannot be saved: You are not able to save a finger in the system.

6.3 Programming the system

Now start programming the system. The menu sequences for each single function are explained below in this document. Let us not forget to mention the security code. You need it in order to be able to make changes in the system. The factory default setting for this code is 99. Change this code to another one of your choice as soon as you have started up the system.

> **Security code** Factory setting 99





II PLEASE CHECK THE USER'S GUIDE ON OUR HOMEPAGE <u>www.ekey.net</u> FOR ADDITIONAL MENU ITEMS.

DISPLAY KEY DISPLAY KEY DISPLAY STROKE STROKE OK ОК User 2 delete? [OK] Select the user to be deleted (V) $\langle \rangle$ This user's fingers will all be deleted! The user name is set back to the factory settings.

WARNING! All the fingers which have been enrolled will be deleted!

KEY STROKE	DISPLAY	KEY STROKE	DISPLAY	FINISHED	
ОК	Reset reset to factory settings press COKJ	ОК	25EREG 2.00.18.21 Deutsch Anglisn Français Italiano Slovenščina Česky		
n			Your <u>e</u> has n the fa the fi dele star "Th	Your <u>ekey home</u> system has now been reset to the factory settings. All the fingers have been deleted! For a new start-up go back to MATIONALIZING THE DEVICES	