



YOUR FINGER. YOUR KEY.



Based in Linz, Austria, ekey is the European market leader for biometric access solutions. As we manufacture and develop our products ourselves, our technological expertise and patented software algorithm make us a reliable partner for business in international markets.

More than 1 million satisfied customers are the best possible recommendation for our products! For many years, both private households and leading companies, along with organizations such as fire and rescue services, have been putting their trust in proven ekey finger scanners.

The right solution for every requirement.

Well-known manufacturers integrate ekey finger scanners in their products as standard.

ekey INTEGRATION:

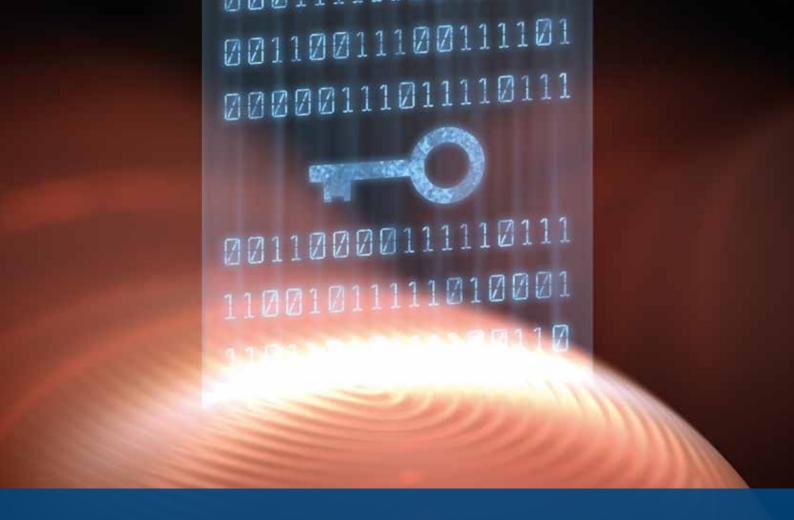
- Wall-mounted/outlet-mounted variants
- Door stations
- Doors
- Door handles
- Switches





After hundreds of years, the key has served its time — now you literally have the future in your hands!





Europe's No. 1 for fingerprint access solutions







Good reasons to choose ekey finger scanners

- UNIQUE COMFORT WITH MAXIMUM SECURITY
- PERSONALIZED ACCESS CONTROL
- MANY INTEGRATION OPTIONS
- EASY INSTALLATION AND ADMINISTRATION
- CONNECTION TO BUILDING CONTROL SYSTEMS
- SIMPLE MAINTENANCE



QUALITY

All ekey products undergo a rigorous endurance test before they reach the market. The test involves intensive simulations of blazing heat, biting cold, and high humidity; each finger scanner, along with all of its components, is subjected to these conditions countless times before reaching the customer. Our formula for quality consists of the highest standards of functionality, reliability, and security, which are refined through extensive testing.

CERTIFIED QUALITY – MADE IN AUSTRIA:

- Extensive production, manufacturing, and functional testing (zero tolerance)
- Testing for environmental and temperature resistance
- · Vibration and shock-tested
- · Tested for penetration of water and solid foreign bodies
- Quality management system in accordance with EN ISO 9001:2015
- · CE-compliant

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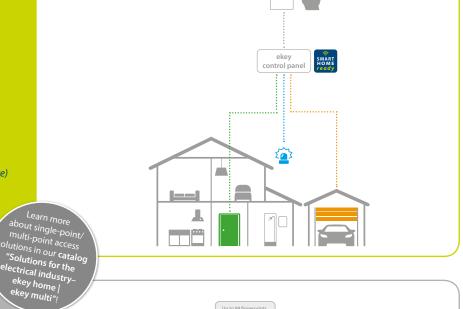
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ekey home

Single-point access solutions

With just one finger scanner* control up to 3 functions.

- Can store up to 99 fingerprints
- Can control from 1 to 3 functions (e.g. door, gate, and alarm system)
- Easy to operate with central user administration directly via the control panel
- Or by using the *ekey home app*
- (ekey finger scanner integra, ekey finger scanner arte)
- Optional: Access via transponder (RFID) possible
 - -> Can also store up to 99 transponders

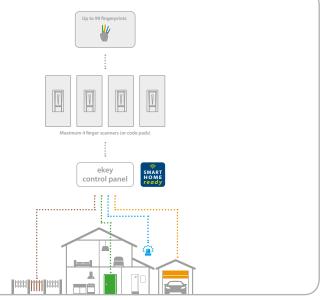


ekey multi

Multi-point access solutions

4 finger scanners* are managed by a single control panel.

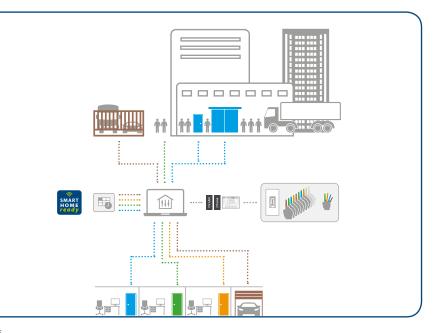
- Can store up to 99 fingerprints
- Supports up to 4 finger scanners
- Can control up to 4 functions per finger scanner (e.g., door, gate, and alarm system)
- Individually programmable time slots
- Access logging for every finger scanner
- Easy to operate with central user administration directly via the control panel
- Personalized user permissions can be assigned (based on location and/or time)
- Vacation or permanent program
- Optional: Access via transponder (RFID) possible
 - -> Can also store up to 99 transponders



ekey net Network access solutions

The networked access solution for companies, organizations, and discerning households.

- Can store up to 2,000 fingerprints per finger scanner*
- Supports up to 80 finger scanners
- Can control up to 4 functions per finger scanner
- Programmable time slots
- Access logging for every finger scanner
- Supports cross-site administration
- Central administration via PC
- Calendar function
- Interfaces for establishing external connections
- Optional: Access via transponder (RFID) possible
 - -> Can also store up to 2,000 transponders



^{*}Alternatively: Code pad (keypad) -> can store up to 99 or 2,000 codes

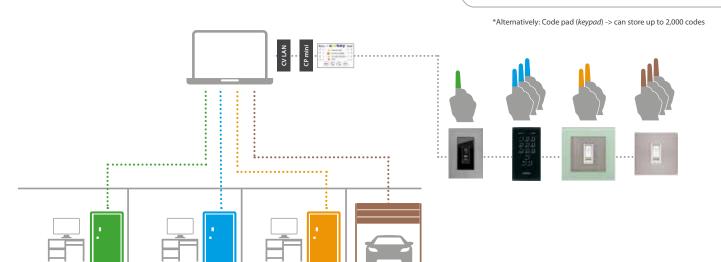


The networked access solution for companies, organizations, and discerning households.

ekey net is a networked access control system for up to 80 finger scanners. It allows you to manage all your access zones centrally via a PC – from the office entrance and the server room right through to the warehouse. User-friendly software enables you to store individuals and organize them within freely definable user groups. ekey net supports a range of interfaces for connection to external systems (e.g., building control, time recording, printer management, Wiegand systems, etc.).

Short facts:

- Can store up to 2,000 fingerprints per finger scanner*
- Supports up to 80 finger scanners
- Can control up to 4 functions per finger scanner
- Programmable time slots
- · Access logging for every finger scanner
- Supports cross-site administration
- · Central administration via PC
- Calendar function
- · Interfaces for establishing external connections
- Optional: Access via transponder (RFID) possible -> Can also store up to 2,000 transponders



Steps in the planning process for a successful project



Before you start planning, you must know exactly how many **users** and **access points** (and, if applicable, how many locations) your *ekey net* access solution is to be configured for. This requires you to be familiar with the **building and network architecture**.



Select a suitable license variant:

- a) light
- b) business



Select a suitable finger scanner or finger scanners on the basis of model, function, and storage capacity, or a code pad:

- a) Finger scanner wall-mounted (WM)
- b) Finger scanner outlet-mounted E (OM E) or outlet-mounted I (OM I)
- c) Finger scanner integra (IN)
- d) Code pad keypad integra (KP IN)

Select suitable accessories, if required: Weather shield, wall-mounting set, mounting frame, etc.



Select a suitable control panel:

- a) ekey net control panel mini 1 or 2 (CP mini 1 or 2)
- b) ekey net control panel wall-mounted 3 (CP WM 3)
- c) ekey net control panel DIN-rail-mounted 4 (CP DRM 4)



Select a suitable number of LAN converters.



Select a suitable number and type of power supplies:

- a) Simple wall power supply (PS WPS)
- b) Convenient DIN-rail-mounted power supply inside the distribution box (PS DRM)
- c) Outlet-mounted power supply (PS OM)
- d) Uninterruptible power supply, DIN-rail-mounted (UPS DRM)





_ Storage station:

Convenient finger storage on your PC at your workstation.



Server and system requirements:

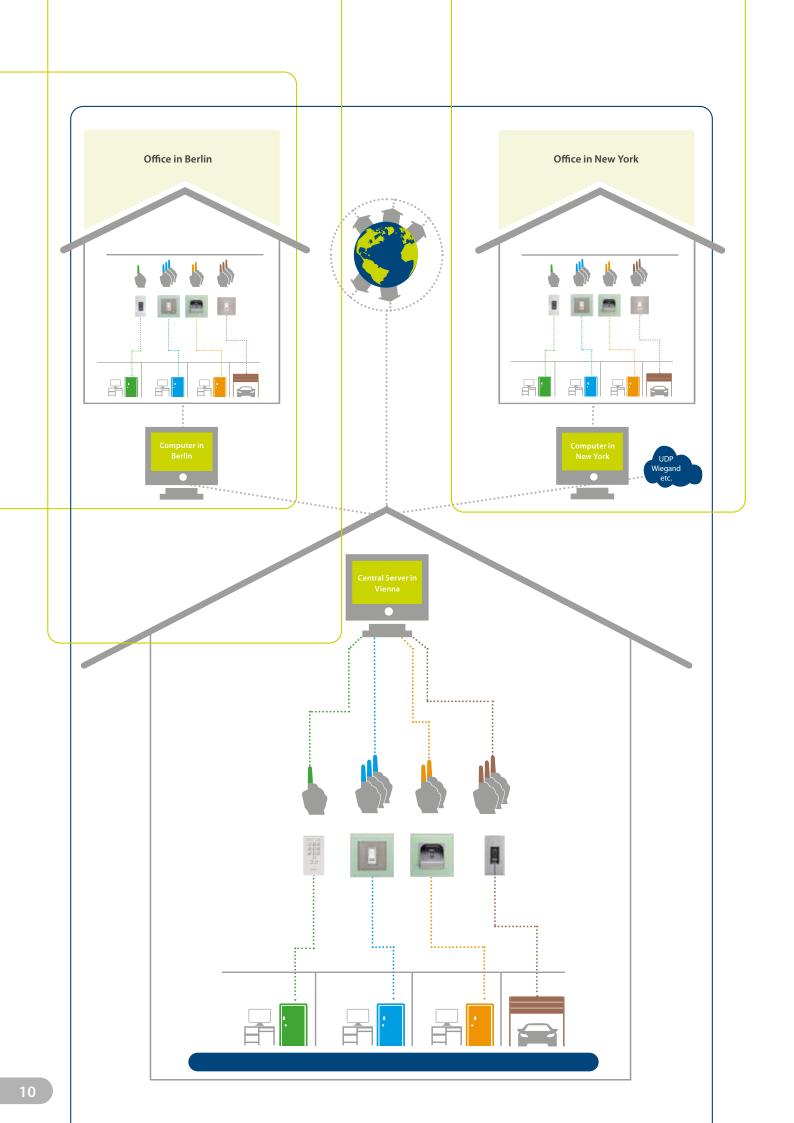
Minimum requirements for the system and computer



$\label{lem:connecting} \textbf{Select a suitable interface for connecting to third-party systems, if required:} \\$

- a) ekey net Wiegand converter (CV WIEG)
- b) ekey net LAN converter (CV LAN)
- c) ekey net software development kit (SDK)
- d) ekey KNX CONNECT (netyard)





Step 1: Select the suitable license variant:

Functional scope

To cater to the wide range of possible applications, the ekey net software is available with 2 different license variants:

- ekey net light supports basic access functions (e.g., discerning private homes)
- ekey net business (full version)

Functions available in ekey net	light	business
Finger scanner variants (S = 40, M = 200, L = 2,000 fingerprints)	S, M	S, M, L
Code pad ekey keypad L integra (L = 2,000 codes)	L	L
Number of finger scanners that can be managed in the system	80	80
Number of time zones	3	UNLIMITED
Number of entries per time zone	31	31
Attendance list	×	✓
Calendar function for public holidays and vacations	1	UNLIMITED
Terminal groups	1	UNLIMITED
User groups	1	UNLIMITED
Concierge mode (e.g., to open a door directly from the PC)	×	✓
Wiegand connection	×	✓
Ability to change basic settings (essentially those that are pre-defined)	×	✓
Customer-specific device definition (action, event conversion)	×	✓
CSV transmission	POSITIVE ONLY	✓
ODBC (SQL) transmission	×	✓
HTML transmission	×	✓
UDP transmission	✓	✓
ekey reporting	×	✓
Time-controlled anti-pass back	✓	✓
Opening via cell phone browser with a single-use PIN for added security	✓	✓
Simultaneous switching of up to 2 functions	✓	✓
Daytime switching operation with first entry	✓	✓
Daytime switching operation without first entry (automatic time-controlled operation)	×	✓
Configurable inputs for triggering an action	✓	✓
2-person principle (e.g., code and finger scanner required)	✓	✓

 $\ \ \, \text{License to upgrade from } \textbf{light to business } \text{on request } (\textit{ekey net upgrade})!$

ekey net software licenses

Important: A license must be obtained for each finger scanner*!

Replace the digits 00 with the number of finger scanners* you require. The resulting number is your part number.

Part no.	Description
170000	ekey net business
	Example You have 14 finger scanners. Your part number is 170014.



Part no.	Description
1710 <mark>00</mark>	ekey net light
	Example You have 7 finger scanners. Your part number is 171007.



Part number 170014





Step 2: Select the suitable finger scanner or scanners ...



... based on function!



ekey finger scanner

ekey finger scanner without any additional functionality.



ekey finger scanner with radio-frequency identification

The finger scanner has an integrated RFID card reader with MIFARE DESFire EV1.



ekey finger scanner with relay on board ("indoor" function)

The finger scanner has the switching relay already built in. Consequently, no additional control panel is required.*



ekey finger scanner with radio-frequency identification + relay on board ("indoor" function)

The finger scanner has an RFID card reader with MIFARE DESFire EV1 and the switching relay already built in. Consequently, no additional control panel is required.*



Code pad ekey keypad integra

For the input of user codes containing 4 to 8 digits.

*For security reasons, the finger scanner is only suitable for internal use because it is not tamper-proof.



... based on storage capacity!

Туре	Fingerprints	Codes	RFID transponders
S	40	×	40
M	200	×	200
L	2,000	2,000	2,000

This is the maximum number of fingerprints that can be stored on this finger scanner*. We recommend storing at least 2 fingerprints for each user.

An upgrade is possible in theory but components will need to be replaced!



... based on model!



Wall-mounted

For wall mounting and easy retrofitting.



Outlet-mounted

For outlet mounting in switch frames or integration into door stations and mailboxes.



integra

For wall mounting, cavity wall mounting, or outlet mounting and integration into doors.



ekey finger scanner wall-mounted

For wall mounting and easy retrofitting



Finger scanner



Technical specifications

- FAR: 1:10,000,000/FRR: 1:100
- Dimensions W x H x D: 45 x 81.6 x 60.3 mm
- Power consumption: approx. 1 W
- Supply voltage: 8-24 VDC
- IP Code: IP44

- Recommended mounting height: 135 cm
- Display: 3 multicolored LEDs
- Temperature range: -25 °C to 70 °C
 Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device

		Part no.	Description
		101390	ekey net FS S WM, max. 40 fingerprints
		101391	ekey net FS M WM, max. 200 fingerprints
		101392	ekey net FS L WM, max. 2,000 fingerprints
		101393	ekey net FS S WM RFID, max. 40 fingerprints + 40 ekey RFID transponders MIFARE DESFire EV1
	RFID	101394	ekey net FS M WM RFID, max. 200 fingerprints + 200 ekey RFID transponders MIFARE DESFire EV1
		101395	ekey net FS L WM RFID, max. 2,000 fingerprints + 2,000 ekey RFID transponders MIFARE DESFire EV1
		101396	ekey net FS S WM REL, max. 40 fingerprints
NO LON AVAIL	VGER ABLE	101397	ekey net FS M WM REL, max. 200 fingerprints
AVAIL		101398	ekey net FS L WM REL, max. 2,000 fingerprints
	REID	101399	ekey net FS S WM RFID REL, max. 40 fingerprints + 40 ekey RFID transponders MIFARE DESFire EV1
	RFID .	101400	ekey net FS M WM RFID REL, max. 200 fingerprints + 200 ekey RFID transponders MIFARE DESFire EV1
	REL 1	101401	ekey net FS L WM RFID REL, max. 2,000 fingerprints + 2,000 ekey RFID transponders MIFARE DESFire EV1

Accessories



	Part no.	Description			
	101406	ekey weather shield FS WM ST, brushed stainless steel			
		 Dimensions W x H x D: 110 x 170 x 95 mm Recommended mounting height: 135 cm 	Scope of delivery: Weather shield, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU		
R	101418	ekey cover FS WM ST, brushed stainless steel			
E	<u></u>	 Dimensions W x H x D: 89 x 87 x 103 mm Recommended mounting height: 100 cm 	Scope of delivery: Cover, 4 chipboard screws 4x35, 4 screw anchors S5, 3 countersunk head screws M3x16, 3 Torx countersunk head screws M3x6 GU		

Accessories - RFID



Part no.	Description
101690	ekey RFID card MIFARE DESFire EV1 2 KB logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2 KB WHI, white, ISO 14443 A
101691	ekey fob BL RFID MIFARE DESFire EV1 2 KB, black, ISO 14443 A



ekey finger scanner outlet-mounted

For integration into door stations of well-known manufacturers



Finger scanner OM I

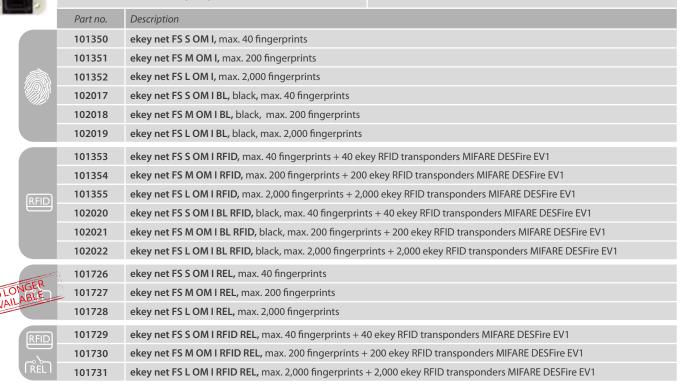
For integration into door stations



Technische Daten

- FAR: 1:10,000,000/FRR: 1:100
- Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm
- Power consumption: approx. 1 W
- Supply voltage: 8-24 VDC
- Temperature range: -25 °C to 70 °C
- Recommended mounting height: 155 cm

- Display: 3 multicolored LEDs
 - Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many build-in modules for door stations, mailboxes, wall-mounting sets



Accessories - Gira TX44



Part no.	Description	
	Build-in modules for door stations Gira	
101380	ekey Modul Gira TX44 AIG, aluminum gray	
101381	ekey Modul Gira TX44 AN, anthracite	
101382	ekey Modul Gira TX44 PW, pure white	

Accessories - Siedle Vario



Part no.	Description
	Build-in modules for door stations Siedle
101376	ekey Modul Siedle Vario DG, micaceous dark gray
101378	ekey Modul Siedle Vario W, white
101379	ekey Modul Siedle Vario SM, silver metallic
101858	ekey Modul Siedle Vario AG, anthracite gray

- Important: Gira and Siedle are only available from ekey! Other modules can be ordered direct from the manufactur
- Attention: RFID function is not possible behind stainless steel or aluminum!

Accessories



Important: Not available in all countries. Ask your sales partner.

Attention: RFID function is not possible behind stainless steel or aluminum!

Well-known manufacturers build ekey finger scanners into their door stations and mailboxes:







































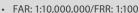


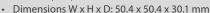
Finger scanner OM E

For integration into door stations



Technical specifications





- Power consumption: approx. 1 W
- Supply voltage: 8-24 VDC
- Temperature range: -25 $^{\circ}$ C to 70 $^{\circ}$ C
- Recommended mounting height: 155 cm

- · Display: 3 multicolored LEDs
- Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many switch ranges with 50 x 50 mm internal dimension
- Incl. bezel, mounting bracket, spacers, sealing flange



Accessories - Siedle Vario

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Part no.	Description	
	Build-in modules for door stations Siedle Vario flush mounted*	
101892	ekey ModulS Siedle Vario DG, micaceous dark gray	
101893	ekey ModulS Siedle Vario W, white	
101894	ekey ModulS Siedle Vario SM, silver metallic	
101895	ekey ModulS Siedle Vario AG, anthracite gray	
101897	ekey ModulS Siedle Vario DG LED, micaceous dark gray with alarm LEDs	
101898	ekey ModulS Siedle Vario W LED, white with alarm LEDs	
101899	ekey ModulS Siedle Vario SM LED, silver metallic with alarm LEDs	
101900	ekey ModulS Siedle Vario AG LED, anthracite gray with alarm LEDs	

- **1** Attention: This accessory is only available in combination with *ekey FS OM E*!
- 1 *Important: Not compatible with the Siedle Vario surface-mounted door station.

Accessories - RFID





П	Part no.	Description
	101690	ekey RFID card MIFARE DESFire EV1 2 KB logo, ekey design, ISO 14443 A
	101692	ekey RFID card MIFARE DESFire EV1 2 KB WHI, white, ISO 14443 A
	101691	ekey fob BL RFID MIFARE DESFire EV1 2 KB, black, ISO 14443 A

Accessories - Gira 106



Part no.	Description
101992	ekey Modul GIRA system 106 TW, traffic white
101991	ekey Modul GIRA system 106 AL, aluminum
101990	ekey Modul GIRA system 106 ST V2A, stainless steel V2A

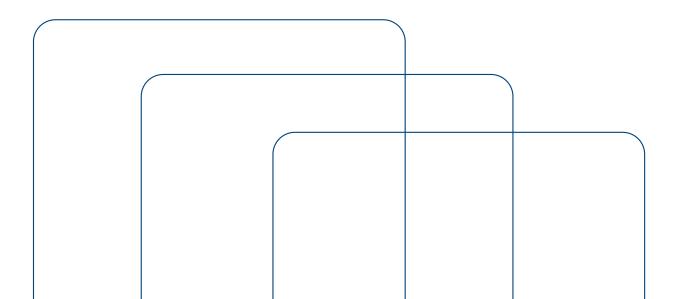
Attention: RFID function is not possible with ekey Modul Gira system 106!

Accessories - 2N Verso



Part no.	Description
101993	ekey Modul 2N IP Verso SC, black

1 Attention: This accessory is only available in combination with ekey FS OM E!





ekey finger scanner **outlet-mounted E**

For integration into switch frames of well-known manufacturers



Finger scanner



Technical specifications

- FAR: 1:10,000,000/FRR: 1:100
- Dimensions W x H x D: 50.4 x 50.4 x 30.1 mm
- Power consumption: approx. 1 W
- Supply voltage: 8-24 VDC
 Temperature range: -25 °C to 70 °C
- Recommended mounting height: 155 cm

- Display: 3 multicolored LEDs
- Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device, compatible with many switch ranges with 50 x 50mm internal dimension
- Incl. bezel, mounting bracket, spacers, sealing flange

30 30		
	Part no.	Description
	101150	ekey net FS S OM E, max. 40 fingerprints
	101151	ekey net FS M OM E, max. 200 fingerprints
	101152	ekey net FS L OM E, max. 2,000 fingerprints
	102011	ekey net FS S OM E BL, black, max. 40 fingerprints
	102012	ekey net FS M OM E BL, black, max. 200 fingerprints
	102013	ekey net FS L OM E BL, black, max. 2,000 fingerprints
	101153	ekey net FS S OM E RFID, max. 40 fingerprints + 40 ekey RFID transponders MIFARE DESFire EV1
	101154	ekey net FS M OM E RFID, max. 200 fingerprints + 200 ekey RFID transponders MIFARE DESFire EV1
RFID	101155	ekey net FS L OM E RFID, max. 2,000 fingerprints + 2,000 ekey RFID transponders MIFARE DESFire EV1
	102014	ekey net FS S OM E BL RFID, black, max. 40 fingerprints + 40 ekey RFID transponders MIFARE DESFire EV1
	102015	ekey net FS M OM E BL RFID, black, max. 200 fingerprints + 2.000 ekey RFID transponders MIFARE DESFire EV1
	102016	ekey net FS L OM E BL RFID, black, max. 2,000 fingerprints + 2,000 ekey RFID transponders MIFARE DESFire EV1
	101156	ekey net FS S OM E REL, max. 40 fingerprints
NO LONGER AVAILABLE	101157	ekey net FS M OM E REL, max. 200 fingerprints
AVAILAD	101158	ekey net FS L OM E REL, max. 2,000 fingerprints
DEID	101159	ekey net FS S OM E RFID REL, max. 40 fingerprints + 40 ekey RFID transponders MIFARE DESFire EV1
RFID	101160	ekey net FS M OM E RFID REL, max. 200 fingerprints + 200 ekey RFID transponders MIFARE DESFire EV1
REL	101161	ekey net FS L OM E RFID REL, max. 2,000 fingerprints + 2,000 ekey RFID transponders MIFARE DESFire EV1

Accessories - RFID



Part no.	Description
101690	ekey RFID card MIFARE DESFire EV1 2 KB logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2 KB WHI, white, ISO 14443 A
101691	ekey fob BL RFID MIFARE DESFire EV1 2 KB, black, ISO 14443 A

Accessories - bezel



Part no.	Description
101166	ekey bezel FS OM PW 50 x 50, plastic, pure white
101167	ekey bezel FS OM AIG 50 x 50, plastic, aluminum gray
101168	ekey bezel FS OM AN 50 x 50, plastic, anthracite









TUNG GIRA :hager basalte



Parts shown in red must be purchased from the switch manufacturer!

• The ekey FS OM E has been designed and built for flush mount back boxes in accordance with DIN 49073.



Accessories - frame

	Part no.	Description	
	101372	ekey frame FS OM ST, brushed stainless steel*	
		• Dimensions W x H x D: 85 x 85 x 7.2 mm	Cover provides the device with IP44 protection for outdoor use on exterior walls rendered with a max. grain size of 1.5 mm around the electrical outlet.
	101702	ekey frame FS OM GL WHI, glass, white	
	101703	ekey frame FS OM GL BL, glass, black	
	101704	ekey frame FS OM GL MI, glass, mint	
		• Dimensions W x H x D: 100 x 100 x 7.5 mm	Cover provides the device with IP44 protection for outdoor use on exterior walls rendered with a max. grain size of 1.5 mm around the electrical outlet.
1000	101705	ekey frame FS OM503 GL WHI, glass, white	
	101706	ekey frame FS OM503 GL BL, glass, black	
	101707	ekey frame FS OM503 GL MI, glass, mint	
		• Dimensions W x H x D: 125 x 100 x 7.5 mm	Cover provides the device with IP44 protection for outdoor use on exterior walls rendered with a max. grain size of 1.5 mm around the 503-type electrical outlet.

Attention: RFID function is not possible behind stainless steel or aluminum!

Accessories - basalte frame

W ER	Part no.	Description	
NOLOABLE	102036	ekey frame FS OM basalte sentido BL, brushed black	
	102049	ekey frame FS OM basalte sentido SaW, satin white	
		• Dimensions W x H x D: 80 x 80 x 8 mm	Cover provides a maximum protection of IP33 and is intended for indoor use.

Attention: RFID function is not possible behind stainless steel or aluminum!

Accessories – mounting frame



Part no.	Description
101779	ekey mounting frame FS OM GL WHI, glass, white
101780	ekey mounting frame FS OM GL BL, glass, black
101781	ekey mounting frame FS OM GL MI, glass, mint
101785	ekey mounting frame FS OM GL MI LED, glass, mint with alarm LEDs
101786	ekey mounting frame FS OM GL BL LED, glass, black with alarm LEDs
101787	ekey mounting frame FS OM GL WHI LED, glass, white with alarm LEDs



 Dimensions W x H x D: Mounting frame: 105 x 105 x 54 mm Flush mount back box: 72 x 72 x 57 mm Material: Glass, plastic 	 Recommended mounting height: 100 cm Scope of delivery: Mounting frame and flush mount back box. A standard flush mount back box is not suitable. 			



ekey cavity wall box WHI, for mounting frame FS OM 101838 • Dimensions W x H x D: 83 x 83 x 65 mm

• Material: Plastic



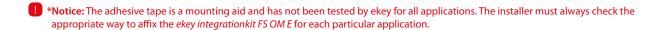
101901

101896 ekey integrationkit FS OM E

ekey integrationkit FS OM E LED, with alarm LEDs

The ekey integrationkit FS OM E is an accessory for the ekey finger scanner FS OM E and can be built into a wide variety of products (mailboxes, door stations, etc.). It is only ever mounted by the user, opening up a number of new possible applications.

- Suitable for RFID
- Recommended mounting height: 100 cm
 Scope of delivery: Mounting bracket for FS OM E, adhesive tape as a mounting aid*







ekey finger scanner **integra**

For wall mounting, cavity wall mounting, and outlet mounting



Finger scanner



Technical specifications

- FAR: 1:10,000,000/FRR: 1:100
- Dimensions W x H x D: Housing: 43.6 x 89 x 17.3 mm
 With design element: 45.5 x 91.5 x 17.3 mm
- Power consumption: approx. 1 W
- Supply voltage: 10-24 VDC
- IP Code: IP54 (only with design element)

- Temperature range: -25 °C to 70 °C
- Display: 3 multicolored LEDs
- Recommended mounting height: 155 cm
- Tamper-proof, data is retained in the event of a power failure, bus termination can be deactivated on the device
- Incl. 8 m connection cable
- Design element not contained within scope of delivery

	Part no.	Description
	101788	ekey net FS S IN, max. 40 fingerprints
	101789	ekey net FS M IN, max. 200 fingerprints
*(0)19)	101790	ekey net FS L IN, max. 2,000 fingerprints
	101791	ekey net FS S IN RFID, max. 40 fingerprints + 40 ekey RFID transponders MIFARE DESFire EV1
RFID	101792	ekey net FS M IN RFID, max. 200 fingerprints + 200 ekey RFID transponders MIFARE DESFire EV1
	101793	ekey net FS L IN RFID, max. 2,000 fingerprints + 2,000 ekey RFID transponders MIFARE DESFire EV1

Accessories - RFID



Part no.	Description
101690	ekey RFID card MIFARE DESFire EV1 2 KB logo, ekey design, ISO 14443 A
101692	ekey RFID card MIFARE DESFire EV1 2 KB WHI, white, ISO 14443 A
101691	ekey fob BL RFID MIFARE DESFire EV1 2 KB, black, ISO 14443 A

Accessories - design element





You can find more information on our website: www.ekey.net/en/pro-special_colors_integra



Accessories – mounting frame

NO LONGER AVAILABLE	Part no.	Description		
	-101716-	ekey mounting frame FS IN GL AN, glass, anthracite		
	101717	ekey mounting frame FS IN GL WHI, glass, white		
	-101801-	ekey mounting frame FS IN GL AN LED, glass, anthracite with alarm LEDs		
	101802	ekey mounting frame FS IN GL WHI LED, glass, white with ala	arm LEDs	
		 Dimensions W x H x D: 53.5 x 127 x 24 mm Material: Stainless steel, glass 	Recommended mounting height: 155 cm	

Accessories – mounting frame with bell module

OLONGER	Part no.	Description				
AVAILABLE	101803	ekey mounting frame FS IN BeM GL WHI, glass, white				
	-101804	key mounting frame FS IN BeM GL AN, glass, anthracite				
	101807	ekey mounting frame FS IN BeM GL WHI LED, glass, white with alarm LEDs				
0 0	-101808 	ekey mounting frame FS IN BeM GL AN LED, glass, anthracite	e with alarm LEDs			
			 Recommended mounting height: 155 cm 2 buttons to trigger a bell electronically 			

Accessories – wall-mounting set

107	Part no.	Description		
	101302	ekey wall-mounting set FS IN ST, stainless steel		
	101301	ekey wall-mounting set FS IN ST LED, stainless steel with alarm LEDs		
		• Dimensions W x H x D:	 Front plate: 96 x 142 x 2 mm Outlet-mounted housing: 60 x 122 x 36 mm 	
	101147	ekey weather shield FS IN ST, stainless steel		
		• Dimensions W x H x D:	 Front plate: 126 x 142 x 65 mm Outlet-mounted housing: 60 x 122 x 36 mm 	
	101300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet		
		• Dimensions W x H x D: 42 x 87 x 25 mm		

! Notice: Can only be used in conjunction with ekey design elements.

Perfect match. ekey integra + keypad.



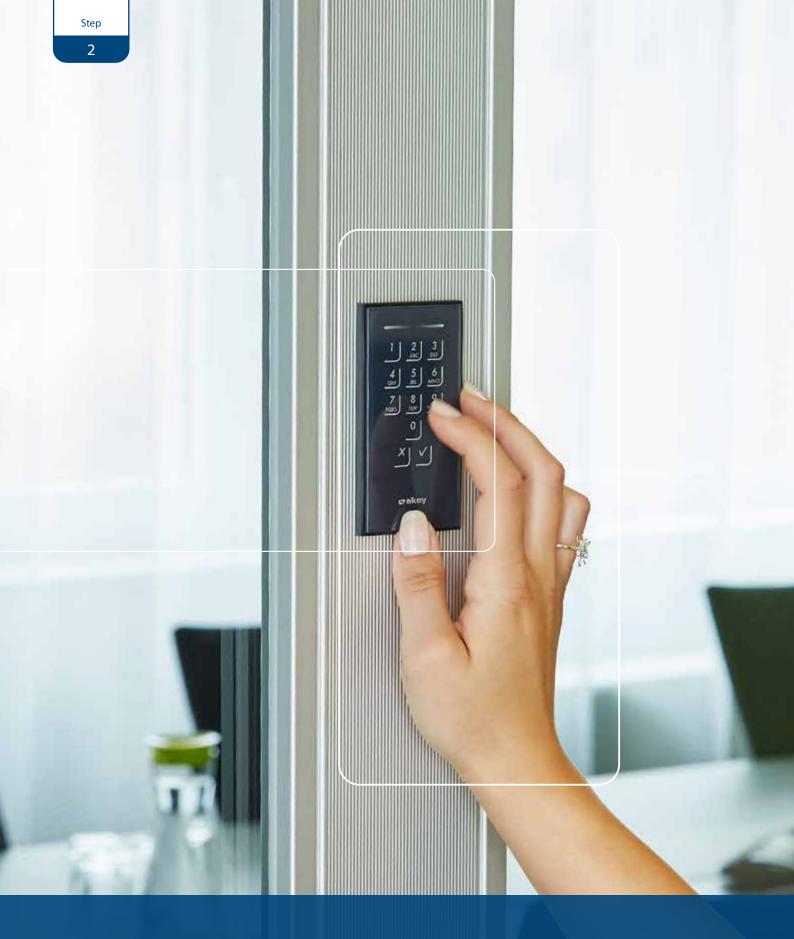












Code pad ekey keypad integra

The alternative to the finger scanner



Code pad



Part no.			
101772			
	 Keypad: capacitive touchpad Dimensions W x H x D: 51.7 x 97.1 x 21.4 mm Power consumption: approx. 1 W Supply voltage: 8-24 VDC IP Code: IP54 (with design element) Temperature range: -25 °C to 70 °C Display: 3 multicolored LEDs 	 Up to 2,000 different 4 - to 8-digit codes can be programmed simultaneously, tamper-proof, data is retained in the event of a power failure, optical and acoustic signals, modern backlighting (configurable) Incl. 8 m connection cable Design element not contained within scope of delivery 	

Accessories – design element



Part no.	Description
101677	ekey design element KP IN GL SG, glass, stainless steel gray
101678	ekey design element KP IN GL WHI, glass, white
101679	ekey design element KP IN GL AN, glass, anthracite

Accessories - mounting frame



Part no.	Description		
101714	ekey mounting frame KP IN GL AN, glass, anthracite		
101715	ekey mounting frame KP IN GL WHI, glass, white		
101799	ekey mounting frame KP IN GL AN LED, glass, anthracite with alarm LEDs		
101800	ekey mounting frame KP IN GL WHI LED, glass, white with alarm LEDs		
	• Dimensions W x H x D: 53.5 x 127 x 24 mm • Material: Stainless steel, glass		

Accessories – mounting frame with bell module



Part no.	Description		
101782	ekey mounting frame KP IN BeM GL AN, glass, anthracite		
101783	1783 ekey mounting frame KP IN BeM GL WHI, glass, white		
101805	 101805 ekey mounting frame KP IN BeM GL WHI LED, glass, white with alarm LEDs 101806 ekey mounting frame KP IN BeM GL AN LED, glass, anthracite with alarm LEDs 		
101806			
	 Dimensions W x H x D: 53.5 x 171 x 24 mm Material: Stainless steel, glass 	• 2 buttons to trigger a bell electronically	

Accessories – wall-mounting set

	Part no.	Description		
	101302	ekey wall-mounting set FS IN ST, stainless steel		
	101301	ekey wall-mounting set FS IN ST LED, stainless steel with alarm LEDs		
		• Dimensions W x H x D:	 Front plate: 96 x 142 x 2 mm Outlet-mounted housing: 60 x 122 x 36 mm 	
	101147	ekey weather shield FS IN ST, stainless steel		
		• Dimensions W x H x D:	 Front plate: 126 x 142 x 65 mm Outlet-mounted housing: 60 x 122 x 36 mm 	
	101300	ekey flush mount back box FS IN, for flush-mounting installation, 0.5 mm sheet		
		• Dimensions W x H x D: 42 x 87 x 25 mm		

! Notice: Can only be used in conjunction with ekey design elements.



Step 3: Select the suitable control panel:



Control panel

Control panel for DIN-rail mounting



Part no. Description

- ekey net CP DRM 4, 4 relays
- Dimensions W x H x D: 70 x 86 x 54 mm (4 HP)
- Power consumption: approx. 1 WSupply voltage: 10-24 VDC
- Temperature range: -20 °C to 70 °C
- IP Code: IP20

- Relays: 4 x potential-free
- Max. relay voltage/current: 42 V/2 A
- Configurable inputs
- RS-485 termination: switchable

Control panel wall-mounted



Part no.
100326

101164

Description

ekey net CP WM 3, 3 relays

- Dimensions W x H x D: 180 x 110 x 41 mm
- Power consumption: approx. 1 W
- Supply voltage: 8-12 VDC
- Temperature range: -20 °C to 70 °C
- IP Code: IP20
- Relays: 3 x potential-free
- Max. relay voltage/current: 42 V/2 A

Control panel mini



Part no.	Description		
100666	ekey net CP mini 1, 1 relay		
100667	ekey net CP mini 2, 2 relays		
	 Dimensions W x H x D: 25 x 60 x 42 mm (1 HP) Power consumption: approx. 1 W Supply voltage: 8-24 VDC Temperature range: -20 °C to 70 °C IP Code: IP20 Normally open contact (NO/C) 	 Relays: CP mini 1, 1 x potential-free CP mini 2, 2 x potential-free Max. relay voltage/current: 42 V/1 A Configurable input (for CP mini 1 only) Reset button on the control panel 	

4

Step 4: Select a suitable number of LAN converters:

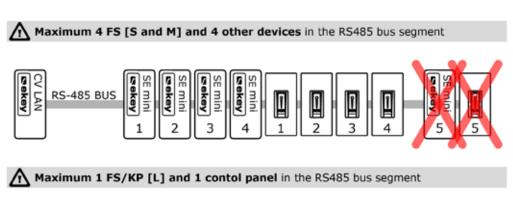


ekey net converter LAN RS-485

- The finger scanners and control panels which communicate using the RS-485 protocol are connected to the network (Ethernet) using the ekey LAN converter.
- A single ekey net LAN converter is capable of managing up to 4 "S" type finger scanners (40 fingerprints) or "M" type finger scanners (200 fingerprints) plus 4 ekey net control panels. This means that each bus segment (CV LAN RS-485) can have up to 8 components. The individual components (finger scanners and control panels) must be connected in series. Star-type wiring between the ekey net LAN converter and the individual components is not permitted.
- If you opt for an ekey net "L" type finger scanner (2,000 fingerprints), you will need a separate ekey net LAN converter for each access point.
- For maximum operational reliability when using ekey net finger scanners of the types "S" and "M", using a separate ekey net LAN converter for each door is recommended.



Part no.	Description		
100340	ekey net CV LAN RS-485, for the connection of the RS-485 protocol to the LAN		
	 Dimensions W x H x D: 25 x 60 x 42 mm (1 HP) Power consumption: approx. 1 W Supply voltage: 8-24 VDC Temperature range: 0 °C to 75 °C 	IP Code: IP20UDP transmissionRTC	

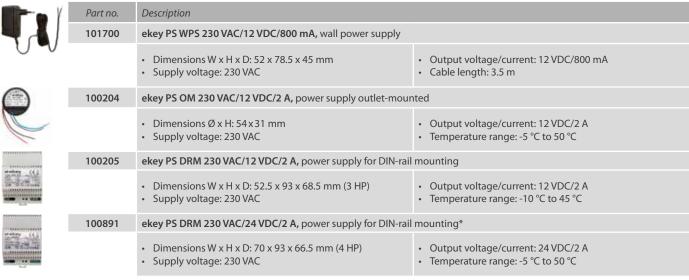




Step 5: Select a suitable number and type of power supplies:



Power supply



1 *Important: Not compatible with ekey net CP WM 3 (100326).



Uninterruptible power supply



The uninterruptible power supply (UPS) comprises a switched-mode power supply and a battery. In the event of a power failure, it can be relied upon to supply power to the finger scanner, the control panel, and the motorized lock for several hours.

	· · · · · · · · · · · · · · · · · · ·			
	Part no.	Description		
	101559	ekey UPS DRM 230 VAC/12 VDC/5 A + REBAT 4 Ah, for DIN-rail mounting		
	8	 Dimensions W x H x D:	 Temperature range: -10 °C to 40 °C Function display: LED Advantages: Replaces line voltage power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock. 	
	101593	ekey UPS DRM 230 VAC/24 VDC/3 A + REBAT 4 Ah, for DIN-rail mounting*		
8		 Dimensions W x H x D: UPS: 403.2 x 93 x 66.5 mm (6 HP) Battery: 157 x 93 x 66.5 mm (9 HP) Supply voltage: 195-265 VAC 3 parts: UPS (switched-mode power supply) and 2 x batteries Output voltage/current: 24 VDC/3 A 	 Temperature range: -10 °C to 40 °C Function display: LED Advantages: Replaces line voltage power supply; ensures a reliable power supply to the system for several hours. Suitable for use in conjunction with a motorized lock. 	
		 *Important: Not compatible with ekey net CP WM 3 (10032 Important: Not available in all countries. Ask your sales page 		

Step 6: Storage station



Storage station

Fingerprints and RFID transponders can be stored conveniently directly on your PC at a workstation.

	Part no.	Description		
	101929	ekey net station		
-	1	For storing fingerprints and RFID transponders (with MIFARE DESFire EV1) or RFID transponders in the <i>ekey net</i> system via an LAN connection. The fingerprints are displayed on the PC.	 Dimensions L x W x H: 150 x 100 x 32 mm Power consumption: approx. 2 W Incl. wall power supply 12 VDC/1 A and cable 1.5 m in length 	

Step 7: Server and system requirements



System requirements

General minimum requirements to be met by your system

Requirements	Details	Dependency
TCP/IP	All computers connected to the <i>ekey net</i> system must be equipped with TCP/IPv4-capable network adapters. TCP/IPv4 must be activated. <i>ekey net</i> does not support TCP/IPv6.	Network Communication
Name resolution (DNS)	It must be possible to mutually resolve the names (NetBIOS and DNS name) of all computers used in the <i>ekey net</i> system via DNS.	MSMQ, DNS
Routing	It must be possible to access all computers involved in the <i>ekey net</i> system in both directions via TCP and UDP.	MSMQ, UDP, HTTP
Local time on the computer	Deviations between computers equal to or greater than 3 seconds cannot be tolerated.	ekey net services, ekey net admin software

Processor, memory, and Ethernet

- x86 or x64 Dual-Core processor with at least 1.0 GHz
- 2 GB RAM (minimum)

- SSD or HDD with at least 10 GB storage space available
- Ethernet port with at least 100 Mbit/s

Operating system

Windows 7 x86 SP1; Windows 7 x86 SP1; Windows 8 x86; Windows 8 x64; Windows 8.1 x86; Windows 8.1 x86; Windows 10 x86; Windows 10 x86; Windows Server 2012; Windows Server 2012 R2; Windows Server 2016

Step 8: Select a suitable interface, if required:



Interface

Interface for connecting the equipment to home automation systems



	Part no.	Description		
	100340	ekey net CV LAN RS-485, for the connection between RS-485 and LAN		
	 Dimensions W x H x D: 25 x 60 x 42 mm (1 HP) Power consumption: approx. 1 W Supply voltage: 8-24 VDC Temperature range: -25 °C to 75 °C 	IP Code: IP20UDP transmissionRTC		

It takes just a few clicks to activate the UDP interface in the *ekey net* admin software. The data packet is sent to a configurable IP address via the *ekey net* LAN converter. No additional LAN converter is required.

ekey net protocol



1 The following output formats are also supported: ODBC, CSV, and HTML as well as interfaces with the *ekey net SDK* and the CursorFill method.

Interface for connecting the equipment to alarm or other access control systems



Part no.	Description	
100669	ekey net CV WIEG RS-485	
	The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. Three options are available: the 26-bit default protocol, the 39-bit Pyramid protocol, and a protocol with freely selectable ID bit lengths.	 Dimensions W x H x D: 25 x 60 x 42 mm (1 HP) Power consumption: approx. 1 W Supply voltage: 8-24 VDC Temperature range: -25 °C to 75 °C IP Code: IP20

Interface for connecting the equipment to KNX systems



Mfr.	Description	
netyard	ekey KNX CONNECT	
	The ekey KNX CONNECT builds on the ISE SMART KNX PROGRAMMABLE, which connects the ekey system to the KNX bus simply and reliably. The IP interface is used for communication with the ekey system. The ekey KNX CONNECT can be used with ekey home, ekey multi and ekey net products.	More information: www.netyard.de/en

Step 9: Commissioning and customer service

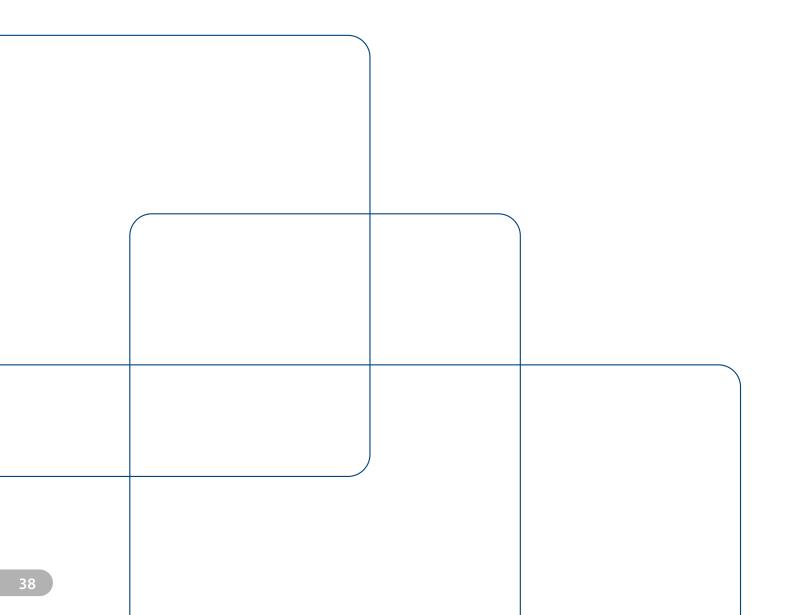


Commissioning and customer service

If needed, we can offer you assistance with commissioning through a remote session.

ekey Support

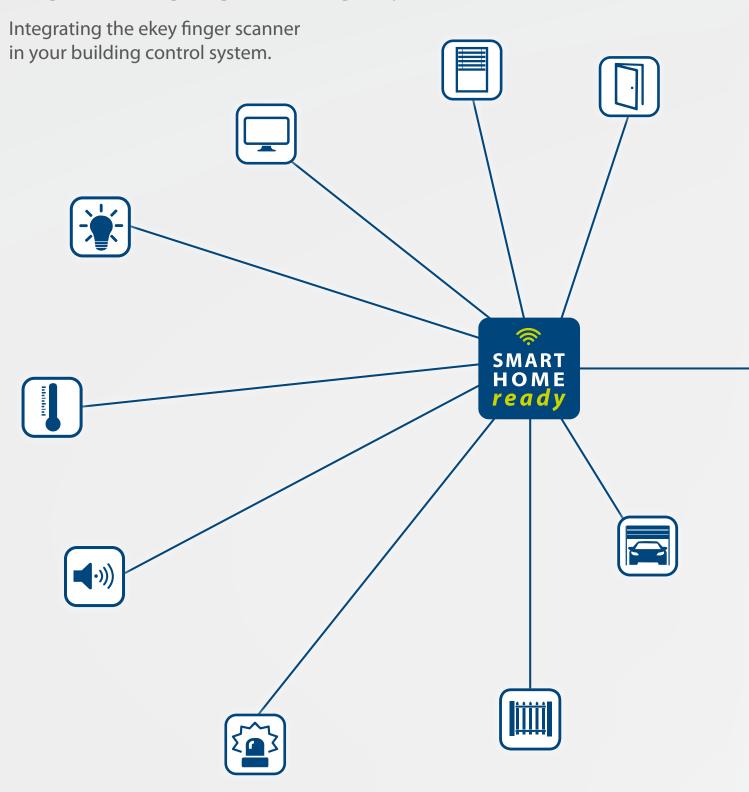
https://www.ekey.net/en/pro-hotline/







HOME AUTOMATION.



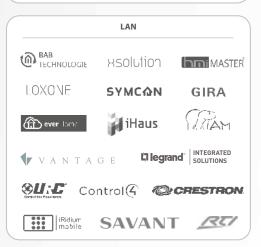
An ekey finger scanner can do more than just open doors.

With the right ekey interface (converter), you can use your fingers to initiate customized actions via your building control system.











Tips and tricks

Congratulations on purchasing your ekey product!

Your finger is now also your key! Our tips and tricks will help you to make the best possible use of your ekey finger scanners.

Installation position and mounting height

Installation position: Finding the right position for the finger scanner will make the finger swipe technique much easier to master and will improve finger recognition. The finger scanner works just as well whether you are right-handed or left-handed!

It is important to have enough moving space when standing in front of the finger scanner. Straining to reach the scanner will produce poor results.

Mounting height: The scanner can only be used ergonomically if it is mounted at the right height.







Туре	Recommended mounting height
WP (wall-mounted)	135 cm
OM (outlet-mounted)	100/155 cm
IN (integra)	155 cm
AR (arte)	155 cm

• Sensor and finger surface

The sensor is the narrow strip across the bottom part of the finger swipe area. You must swipe the front phalanx fully over the sensor in order to achieve optimal results. The sensor must not be subjected to any mechanical stress other than operation with a finger.

Do not scratch the sensor with your fingernail. Never clean the sensor with the rough side of a sponge or with any aggressive cleaning agents. Damaged sensors must be replaced.



• Finger scan

From experience, the best fingers to use are as follows: 1. middle finger, 2. index, 3. ring finger. Neither the thumb nor the little finger should be used. Each person will have fingers that are more or less suitable for scanning. It is a good idea to use the hand you write with (right-handed/left-handed), as you will have more feeling in this hand. You should choose a clean finger without any cuts or grazes. If your finger has very few lines due to abrasion or for genetic reasons, it will not be detected by the sensor. Clearly visible lines will make it easier to recognize.

Children should use their index finger or whichever finger they instinctively choose to use. Use the fingers that are most comfortable for you and those that are recognized the quickest.

Mounting the control panel

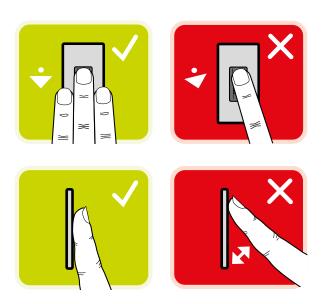
The control panel switches the relay and must, therefore, only be mounted in the protected internal area (tamper-proof). It should, however, be easily accessible for programming purposes.

• Finger swipe area

A good finger swipe technique is crucial for optimal detection. The best method is to stretch out ALL of your fingers and place the finger to be scanned on the finger swipe area so that only the first phalanx is in contact with it. The joint of the first phalanx should be directly over the sensor.

Place the other fingers to the left and right of the scanner. Do not roll your finger onto the fingertip while swiping. Apply moderate pressure and swipe your finger evenly over the sensor at a medium speed: not too fast and not too slow. The incorrect amount of pressure will produce poor results.

The amount of pressure required will vary according to your skin type. Soft skin will require less pressure; dry skin will require more. Test a few different methods to see how you can achieve the best possible scan results for you. To begin with, the finger swipe technique takes a bit of practice. You will soon learn the best way to operate the scanner. to operate the scanner.



Storing a finger

To enable convenient operation with either hand, and as a backup in case of injury, you should store one finger from each hand.

For fingers that are not so easy to scan – for example, those of small children, elderly people, or manual workers – the same finger should be stored in several storage spaces.

It is generally better to enroll one finger several times rather than several fingers once. This increases the likelihood of detection and means that the system works better at the thresholds of operation (dry fingers, skin cream, or sweat after sport) or when operated under unfavorable conditions.

Intelligent software:

The ekey software is learning all the time – it can detect the growth of children's fingers as well as minor injuries and changes to users' habits.

Children's fingers:

Children's fingers generally work from around school age. The specified mounting height must be observed in order to ensure correct operation.

Support

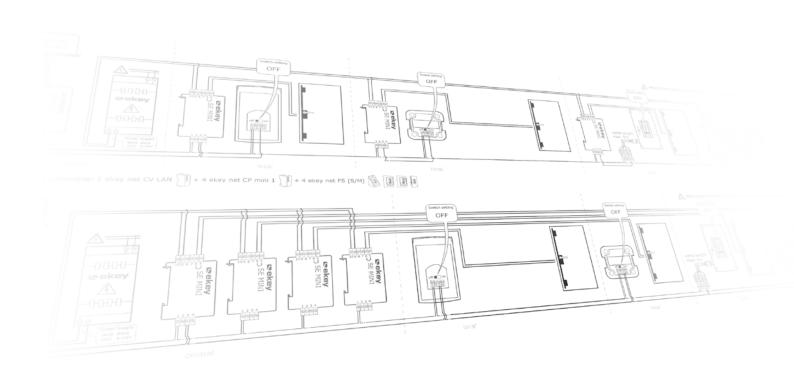
Storing fingers and using the scanner is usually a straightforward process. However, if this information does not help you, please contact us:

Austria & International:+43 732 890 500 - 0Germany:+49 6187 90696 - 0Switzerland:+41 71 560 5484Italy:+39 0471 922 712Slovenia:+386 1 530 94 95





Technical specifications and wiring diagram

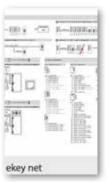


ekey downloads

Wiring diagram and catalogue



ekey MEDIA CENTER
You can find all information on our products on our website at www.ekey.net/en/pro-mediacenter











Notes





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