ekey

YOUR FINGER. YOUR KEY.

ekey finger scanners

Solutions for the electrical industry – *ekey home | ekey multi*

2020

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 one 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 into their own products as standard.

ekey INTEGRATION:

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

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

Dr. Leopold Gallner
CEO, ekey biometric systems GmbH

ekey – Europe's No. 1 for fingerprint access solutions

Made in Austria

ekey was founded in 2002 and is now Europe's No. 1 for fingerprint access solutions. ekey puts authorization into the customer's hands! Keys, cards, codes, etc., can be lost, forgotten, or stolen. "Your finger is always on hand!" ekey's wide range of products includes finger scanners for doors, gates, alarm systems, and time recording.

The international company currently has 100 employees at its 5 locations in Austria, Germany, Liechtenstein/Switzerland, Italy, and Slovenia, and exports its products to over 70 countries, which makes up 77 % of its business. ekey's main sales markets include Spain and the USA, in addition to Austria, Germany, Switzerland, Slovenia, and Italy.

Good reasons
to choose ekey finger scanners

- **USER CONVENIENCE AND MAXIMUM SECURITY**

- **CUSTOMIZED ACCESS CONTROL**

- **A WIDE RANGE OF INTEGRATION POSSIBILITIES**

- **EASY INSTALLATION AND ADMINISTRATION**

- **CONNECTION TO BUILDING CONTROL SYSTEMS**

- **SIMPLE MAINTENANCE**

- **5-YEAR QUALITY GUARANTEE**

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 objects
- Quality management system in accordance with EN ISO 9001:2015
- CE-compliant

# Contents

ekey home
Single-point access solutions

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

- Can store up to 99 fingerprints
- Can be used to 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: Transponder access (RFID) is possible -> Can also store up to 99 transponders

ekey
control panel

SMART HOME *ready*
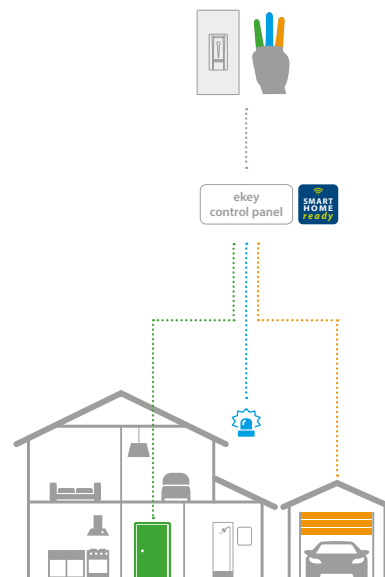
ekey multi
Multi-point access solutions

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 log for every finger scanner
- Easy to operate with central user administration directly via the control panel
- User permissions can be assigned on a personalized basis (based on location and time)
- Vacation or permanent program
- Optional: Transponder access (RFID) is possible -> Can also store up to 99 transponders

Can store up to 99 fingerprints

Up to 4 finger scanners (or code pads)

ekey
control panel

SMART HOME *ready*
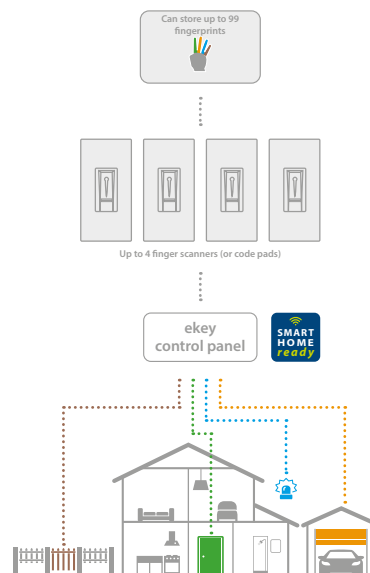
ekey net
Network access solutions

The networkable 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 log for every finger scanner
- Supports cross-site administration
- Central administration via PC
- Calendar function
- Interfaces for establishing external connections
- Optional: Transponder access (RFID) is possible -> Can also store up to 2,000 transponders

You can find all our network access solutions in our "ekey net" catalog

SMART HOME *ready*
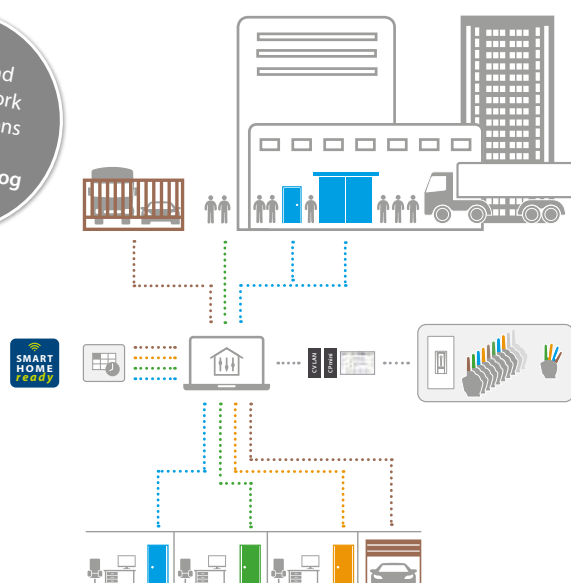
*Alternatively: Code pad (*keypad*) -> can store up to 99 or 2,000 codes

Steps in the planning process
for a successful project

1 Select the system that suits the size of the project and meets customer requirements:
a) Single-point access solution *ekey home*
b) Multi-point access solution *ekey multi*

2 Select a suitable finger scanner model and function (Bluetooth/RFID) 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.

3 Select a suitable control panel based on the following criteria:
a) Wall-mounted (*WM*) or DIN-rail-mounted (*DRM*, *mini*) inside the distribution box
b) Consider the number of functions required: 1, 2, or 3 functions with *ekey home* and
  4 functions with *ekey multi*

⚠ **Attention:** 1 - 3 functions with different fingers possible on only 1 finger scanner, e.g., index finger on right hand = front door,
ring finger on left hand = garage door, ring finger on right hand = alarm system (see the example application in the "Single family house" project on page 9).

4 Select a suitable power supply:
a) Simple wall power supply (*PS WPS*)
b) Convenient DIN-rail-mounted power supply inside the distribution box (*PS DRM*)
c) Flush mount back box power supply (*PS OM*)
d) Uninterruptible power supply (*UPS*)

⚠ **Attention:** The scope of delivery for door stations often includes a power supply, which can be used for both finger scanners and code pads.
Check the voltage and current needed to control the consumers (door opener, motorized lock).

5 Select a suitable interface (converter), if required:
a) For connecting the equipment to home automation systems (*ekey converter CV LAN* and *CV KNX*)
b) For connecting the equipment to alarm systems or other access control systems
  (*ekey converter CV WIEG*)

! For door openers and motorized locks, please note:
a) Although door openers are relatively inexpensive, they do not lock the door
  (you may not be covered in the event of a break-in).
b) A motorized lock engages automatically (via mechanical or motorized means) and opens electronically (via motorized means).
  Advise your customers to purchase a motorized lock or an electric strike when buying a door.

ekey home
Single-point access solutions

The right access solution for my private space.

ekey home is the innovative finger scanner set* for your front door or office door. The key features of the system are its simple installation and intuitive user administration. Finger scanners are available in a variety of models to suit different applications.

ekey
control panel

SMART HOME ready
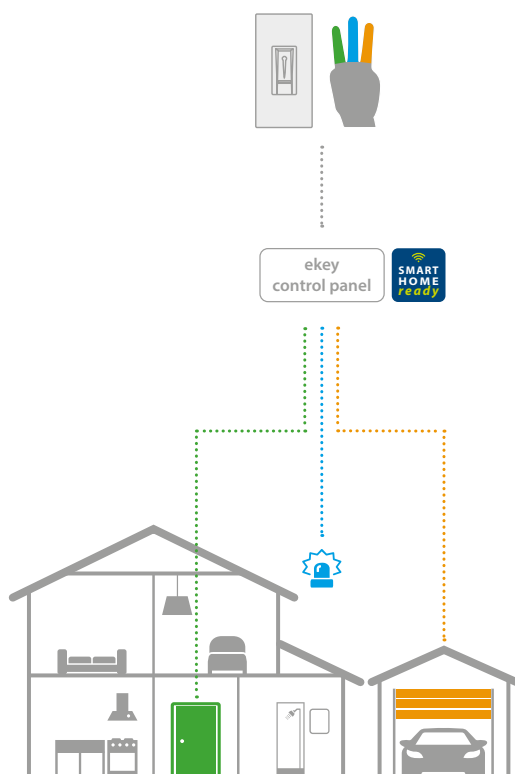
Short facts:

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

- Can store up to 99 fingerprints
- Can be used to 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: Transponder access (RFID) is possible -> Can also store up to 99 transponders

*Alternatively: Code pad (*keypad*) -> can store up to 99 codes

👍 Example: Single family house

Customer requirements:

Keyless access for the whole family. The customer wants to be able to operate the front door, garage door, and alarm system from the finger scanner at the front door with three different fingers.

The index finger will open the front door with relay 1. The middle finger will open the garage door with relay 2 and the ring finger will activate or deactivate the alarm system with relay 3.

Mounting frame	Finger scanner	Control panel	Power supply
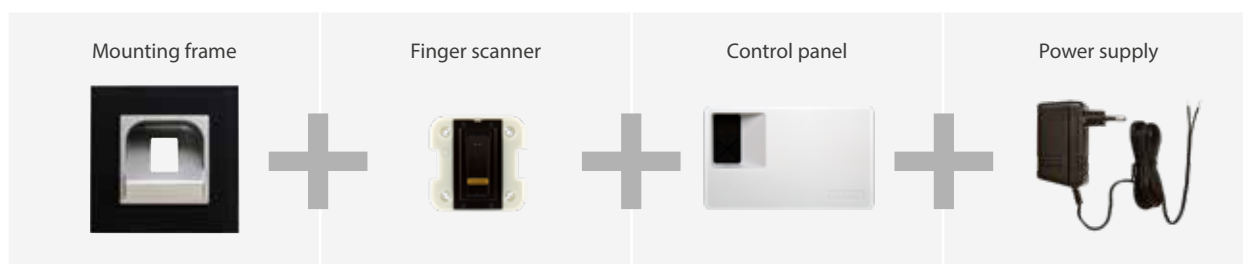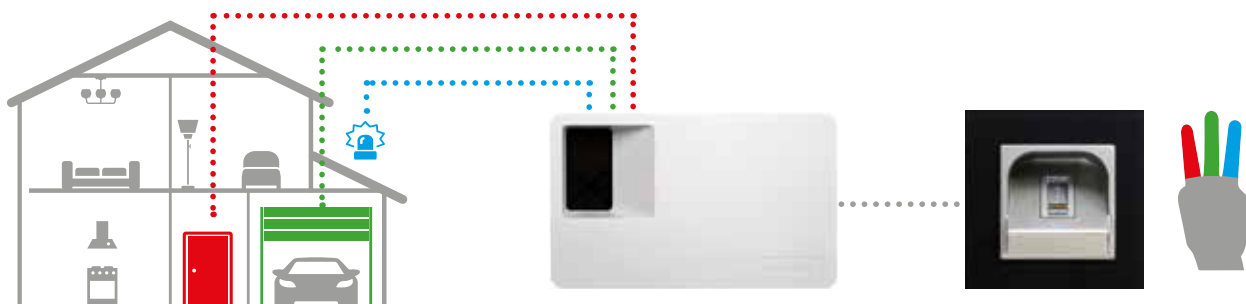
👍 ekey operating concepts

It is very important to us that ekey products are always easy and intuitive to use. With this in mind, we have developed a range of operating concepts to suit all sorts of different requirements and applications.

ekey home app

The innovative and convenient solution for ekey finger scanner administration. All functions of the ekey finger scanner access control system can be set in an instant via your smartphone or tablet. You can also use the app to unlock your front door. Available for Apple iOS and Google Android.

ekey classic

The proven, easy-to-use system. All settings and access rights can be administered conveniently via the control panel.

ekey administrator finger

The economic entry-level solution. Access rights can be stored directly on the finger scanner with defined administrator fingers.

*ekey finger scanner **wall-mounted***

For wall mounting and easy retrofitting

Finger scanner

Part no.	Description
101405	**ekey home FS WM,** steel gray
101667	**ekey home FS WM RFID,** steel gray, incl. 2 ekey RFID cards MIFARE DESFire EV1

- 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
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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

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

Part no.	Description
101418	**ekey cover FS WM ST,** brushed stainless steel

- 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

Control panel

Control panel for DIN-rail mounting

Part no.	Description
101162	**ekey home CP DRM 1,** 1 relay
101312	**ekey home CP DRM 2,** 2 relays

- Dimensions W x H x D: 70 x 86 x 54 mm (4HP)
- Power consumption: approx. 1 W
- Supply voltage: 10-24 VDC
- Temperature range: -20 °C to 70 °C
- IP Code: IP20
- Relay:
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
- Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
- Operation: 4 buttons
- RS-485 termination: switchable

- Inputs (request-to-exit button):
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
- Display: LCD 106 x 56 pixels, 7 lines/21 characters + 2 x 4 status LEDs
- Enroll users, delete individual users, set relay switching durations(0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs
- KNX-compatible

Control panel wall-mounted

Part no.	Description
100478	**ekey home CP WM 1,** 1 relay
100479	**ekey home 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
- Relay: 1 or 3 relays
  CP WM 1, 1 x potential-free
  CP WM 3, 3 x potential-free
- IP Code: IP20

- Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
- Display: 2 x 7-segment display, LED
- Operation: 4 buttons
- RS-485 termination: fixed
- Enroll users, delete individual users, set relay switching durations(0-99 s), change security code, reset

Power supply

Part no.	Description
101700	**ekey PS WPS 230 VAC/12 VDC/0.8 A**, wall power supply

- Dimensions W x H x D: 52 x 78.5 x 45 mm
- Supply voltage: 230 VAC

- Output voltage, output current: 12 VDC/0.8 A
- Cable length: 3.5 m

Part no.	Description
100204	**ekey PS OM 230 VAC/12 VDC/2 A,** power supply outlet-mounted

- Dimensions Ø x H: 54 x 31 mm
- Supply voltage: 230 VAC

- Output voltage, output current: 12 VDC/2 A
- Temperature range: -5 °C to 50 °C

Part no.	Description
100205	**ekey PS DRM 230 VAC/12 VDC/2 A,** power supply for DIN-rail mounting

- Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3HP)
- Supply voltage: 230 VAC

- Output voltage, output current: 12 VDC/2 A
- Temperature range: -10 °C to 45 °C

Part no.	Description
100891	**ekey PS DRM 230 VAC/24 VDC/2 A,** power supply for DIN-rail mounting*

- Dimensions W x H x D: 70 x 93 x 66.5 mm (4HP)
- Supply voltage: 230 VAC

- Output voltage, output current: 24 VDC/2 A
- Temperature range: -5 °C to 50 °C

! ***Important:** Not compatible with *ekey home CP WM 1* and *ekey home CP WM 3*.

Uninterruptible power supply

Our recommendation

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

• Dimensions W x H x D:
  UPS: 252 x 68 x 95 mm (6HP)
  Battery: 157 x 93 x 66.5 mm (9HP)
• Supply voltage: 195-265 VAC
• 2 parts: UPS (switched-mode power supply) and battery
• Output voltage, output current: 12 VDC/5 A
	• Temperature range: -10 °C to 40 °C
	• Function display: LED
	• Advantage: 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.

Part no.	Description
101593	**ekey UPS DRM 230 VAC/24 VDC/3 A + REBAT 4 Ah,** for DIN-rail mounting*

• Dimensions W x H x D:
  UPS: 403.2 x 93 x 66.5 mm (6HP)
  Battery: 157 x 93 x 66.5 mm (9HP)
• Supply voltage: 195-265 VAC
• 3 parts: UPS (switched-mode power supply) and 2 x batteries
• Output voltage, output current: 24 VDC/3 A
	• Temperature range: -10 °C to 40 °C
	• Function display: LED
	• Advantage: 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 home CP WM 1* and *ekey home CP WM 3.*

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

Complete set

Part no.	Description
101409	**ekey home set WM DRM 1,** with control panel for DIN-rail-mounting, 1 relay

The complete set includes:	• *ekey home FS WM* • *ekey home CP DRM 1* • *ekey PS DRM 230 VAC/12 VAC/2 A*

Part no.	Description
101407	**ekey home set WM WM 1,** with control panel wall-mounted, 1 relay
101408	**ekey home set WM WM 3,** with wall-mounted control panel, 3 relays

The complete set includes:	• *ekey home FS WM* • *ekey home CP WM, number of relays according to control panel* • *ekey PS WPS 230 VAC/12 VDC/0.8 A*

Interface

Interface for connecting the equipment to home automation systems

Part no.	Description	
100460	**ekey home CV LAN RS-485**	
	• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol	• Scope of delivery: LAN converter, software

ekey home protocol

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output

Part no.	Description	
101719	**ekey home CV KNX RS-485**	
PARTNER KNX	• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus. • Makeup: DIN-rail mounting • Dimensions W x H x D: 18 x 98 x 61 mm (1HP) • Supply voltage: 12-24 VDC • Mounting type: DIN rail • RS-485 cable length: 10 m	• Number of RS-485 interfaces: 1 • RS-485 protocol: *ekey home* • 12 events (10 freely configurable, 1 "Unknown", 1 "Security") in addition to relay contacts on the control panel • Own ETS application (ETS 5) • Functions: Switching, sending values, selecting scenes • Assigning an event to a finger

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

Part no.	Description	
101582	**ekey home CV WIEG RS-485**	
	The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the *ekey multi CV USB RS-485* (100433).	• Scope of delivery: Wiegand converter, software

Interface for connecting the equipment to KNX systems

Mfr.	Description	
netyard	**ekey KNX CONNECT**	
	The *ekey KNX CONNECT* is based on the ISE SMART KNX PROGRAMMABLE, which easily and reliably connects the ekey system to the KNX bus. 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.	• Further information: *www.netyard.de/en/*

ekey finger scanner outlet-mounted

For integration into door stations of well-known manufacturers

Finger scanner OM I

For integration into door stations

Part no.	Description
101310	**ekey home FS OM I**
101671	**ekey home FS OM I RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
102008	**ekey home FS OM I BL,** black
102009	**ekey home FS OM I BL RFID**, black, incl. 2 ekey RFID cards MIFARE DESFire EV1

• 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, letterboxes, wall-mounting sets

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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories

Part no.	Description
	Build-in modules for door stations Gira
101380	**ekey Modul GIRA TX44 AlG,** aluminum gray
101381	**ekey Modul GIRA TX44 AN,** anthracite
101382	**ekey Modul GIRA TX44 PW,** pure white
	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
	Build-in modules for door stations Elvox
101552	**ekey Modul Elvox Serie 8000 GR,** gray
	Build-in modules for door stations Bticino
101533	**ekey Modul bticino Sfera AME,** Allmetal
101534	**ekey Modul bticino Sfera AWH,** Allwhite
101535	**ekey Modul bticino Sfera AST,** Allstreet
101536	**ekey Modul bticino Sfera ROB,** Robur
	Build-in modules for door stations Comelit
101473	**ekey Modul Comelit ikall BL,** build-in module, black, with FS OM E
101629	**ekey Modul Comelit ikall Metal,** build in module, Metal, with FS OM E

! **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 letterboxes:

Finger scanner OM E

For integration into door stations

Part no.	Description
101148	**ekey home FS OM E**
101673	**ekey home FS OM E RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
102007	**ekey home FS OM E BL,** black
102010	**ekey home FS OM E BL RFID**, black, incl. 2 ekey RFID cards MIFARE DESFire EV1

• 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
• 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, compatible with many
	  switch ranges with 50 x 50 mm internal dimension
	• Incl. bezel, mounting bracket, spacers,
	  sealing flange

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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories – *Siedle Vario*

Part no.	Description
	Build-in modules for door stations Siedle Vario outlet-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

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

! ***Important:** Not compatible with the *Siedle Vario* surface-mounted door station.

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

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

Accessories - *2N Verso*

Part no.	Description
101993	**ekey Modul 2N IP Verso BL**

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

Control panel

Control panel for DIN-rail mounting

Part no.	Description
101162	**ekey home CP DRM 1,** 1 relay
101312	**ekey home CP DRM 2,** 2 relays

- Dimensions W x H x D: 70 x 86 x 54 mm (4HP)
- Power consumption: approx. 1 W
- Supply voltage: 10-24 VDC
- Temperature range: -20 °C to 70 °C
- IP Code: IP20
- Relay:
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
- Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
- Operation: 4 buttons
- RS-485 termination: switchable

- Inputs (request-to-exit button):
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
- Display: LCD 106 x 56 pixels,
  7 lines/21 characters + 2 x 4 status LEDs
- Enroll users, delete individual users, set relay switching durations(0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs
- KNX-compatible

Control panel wall mounted

Part no.	Description
100478	**ekey home CP WM 1,** 1 relay
100479	**ekey home 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
- Relay: 1 or 3 relays
  CP WM 1, 1 x potential-free
  CP WM 3, 3 x potential-free
- IP Code: IP20

- Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
- Display: 2 x 7-segment display, LED
- Operation: 4 buttons
- RS-485 termination: fixed
- Enroll users, delete individual users, set relay switching durations(0-99 s), change security code, reset

Power supply

Part no.	Description
101700	**ekey PS WPS 230 VAC/12 VDC/0.8 A**, wall power supply
	• Dimensions W x H x D: 52 x 78.5 x 45 mm • Output voltage, output current: 12 VDC/0.8 A • Supply voltage: 230 VAC • Cable length: 3.5 m
100204	**ekey PS OM 230 VAC/12 VDC/2 A,** power supply outlet-mounted
	• Dimensions Ø x H: 54 x 31 mm • Output voltage, output current: 12 VDC/2 A • Supply voltage: 230 VAC • Temperature range: -5 °C to 50 °C
100205	**ekey PS DRM 230 VAC/12 VDC/2 A,** power supply for DIN-rail mounting
	• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3HP) • Output voltage, output current: 12 VDC/2 A • Supply voltage: 230 VAC • Temperature range: -10 °C to 45 °C
100891	**ekey PS DRM 230 VAC/24 VDC/2 A,** power supply for DIN-rail mounting*
	• Dimensions W x H x D: 70 x 93 x 66.5 mm (4HP) • Output voltage, output current: 24 VDC/2 A • Supply voltage: 230 VAC • Temperature range: -5 °C to 50 °C

! ***Important:** Not compatible with *ekey home CP WM 1* and *ekey home CP WM 3*.

Uninterruptible power supply

Our recommendation

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

	• Dimensions W x H x D:
	   UPS: 252 x 68 x 95 mm (6HP)
	   Battery: 157 x 93 x 66.5 mm (9HP)
	 • Supply voltage: 195-265 VAC
	 • 2 parts: UPS (switched-mode power supply) and battery
	 • Output voltage, output current: 12 VDC/5 A • Temperature range: -10 °C to 40 °C
	 • Function display: LED
	 • Advantage: 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*

	• Dimensions W x H x D:
	   UPS: 403.2 x 93 x 66.5 mm (6HP)
	   Battery: 157 x 93 x 66.5 mm (9HP)
	 • Supply voltage: 195-265 VAC
	 • 3 parts: UPS (switched-mode power supply) and 2 x batteries
	 • Output voltage, output current: 24 VDC/3 A • Temperature range: -10 °C to 40 °C
	 • Function display: LED
	 • Advantage: 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 home CP WM 1* and *ekey home CP WM 3*.

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

Complete set

Part no.	Description
101426	**ekey home set FS OM I DRM 1,** with control panel for DIN-rail mounting, 1 relay
101660	**ekey home set FS OM I DRM 2,** with control panel for DIN-rail mounting, 2 relays
	The complete set includes: • *ekey home FS OM I* • *ekey home CP DRM,* number of relays according to the control panel

! **Attention:** The scope of delivery for door stations often includes a power supply, which can be used for finger scanners and code pads too. Check the voltage and current needed to control the consumers (door opener, motorized lock).

Interface

Interface for connecting the equipment to home automation systems

Part no.	Description
100460	**ekey home CV LAN RS-485**
	• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol • Scope of delivery: LAN converter, software

Protokoll *ekey home*

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output

Part no.	Description
101719	**ekey home CV KNX RS-485**
PARTNER KNX	• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus. • Makeup: DIN-rail mounting • Dimensions W x H x D: 18 x 98 x 61 mm (1HP) • Supply voltage: 12-24 VDC • Mounting type: DIN rail • RS-485 cable length: 10 m	• Number of RS-485 interfaces: 1 • RS-485 protocol: *ekey home* • 12 events (10 freely configurable, 1 "Unknown", 1 "Security") in addition to relay contacts on the control panel • Own ETS application (ETS 5) • Functions: Switching, sending values, selecting scenes • Assigning an event to a finger

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

Part no.	Description	
101582	**ekey home CV WIEG RS-485**	
	The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the *ekey multi CV USB RS-485* (100433).	• Scope of delivery: Wiegand converter, software

Interface for connecting the equipment to KNX systems

Mfr.	Description	
netyard	**ekey KNX CONNECT**	
	The *ekey KNX CONNECT* is based on the ISE SMART KNX PROGRAMMABLE, which easily and reliably connects the ekey system to the KNX bus. 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.	• Further information: *www.netyard.de/en/*

ekey finger scanner **outlet-mounted E**

For integration into switch frames of well-known manufacturers

Finger scanner

For integration into switch frames

Part no.	Description
101148	**ekey home FS OM E**
101673	**ekey home FS OM E RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
102007	**ekey home FS OM E BL,** black
102010	**ekey home FS OM E BL RFID**, black, incl. 2 ekey RFID cards MIFARE DESFire EV1
	• 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 • 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, compatible with many switch ranges with 50 x 50 mm internal dimension • Incl. bezel, mounting bracket, spacers, sealing flange
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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories – bezel

Part no.	Description
101166	**ekey bezel FS OM PW 50x50,** plastic, pure white
101167	**ekey bezel FS OM AIG 50x50,** plastic, aluminum gray
101168	**ekey bezel FS OM AN 50x50,** plastic, anthracite

Accessories – frame basalte

Part no.	Description
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 maximum IP33 protection and is designed for interior use

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

BUSCH-JAEGER · merten by Schneider Electric · B. Berker · JUNG · GIRA · :hager · basalte

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

The *ekey FS OM E* has been designed for installation in flush mount back boxes in accordance with DIN 49073.

Cavity wall box

60mm

Flush mount back box for use in plasterwork

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 use outdoors on exterior rendering with max. 1.5 mm grain size 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 use outdoors on exterior rendering with max. 1.5 mm grain size around the electrical outlet.	
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 use outdoors on exterior rendering with max. 1.5 mm grain size around the electrical outlet type 503.	

! ***Attention:** RFID function is not possible with *ekey frame FS OM ST*!

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.
101838	**ekey cavity wall box WHI,** for *mounting frame FS OM*	
	• Dimensions W x H x D: 83 x 83 x 65 mm	• Material: Plastic
101896	**ekey integrationkit FS OM E**	
101901	**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 (letterboxes, 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*

! ***Notice:** The adhesive tape is a mounting aid and has not been tested by ekey for all applications. The installer must always check the appropriate way to affix the *ekey integrationkit FS OM E* for each particular application.

Control panel

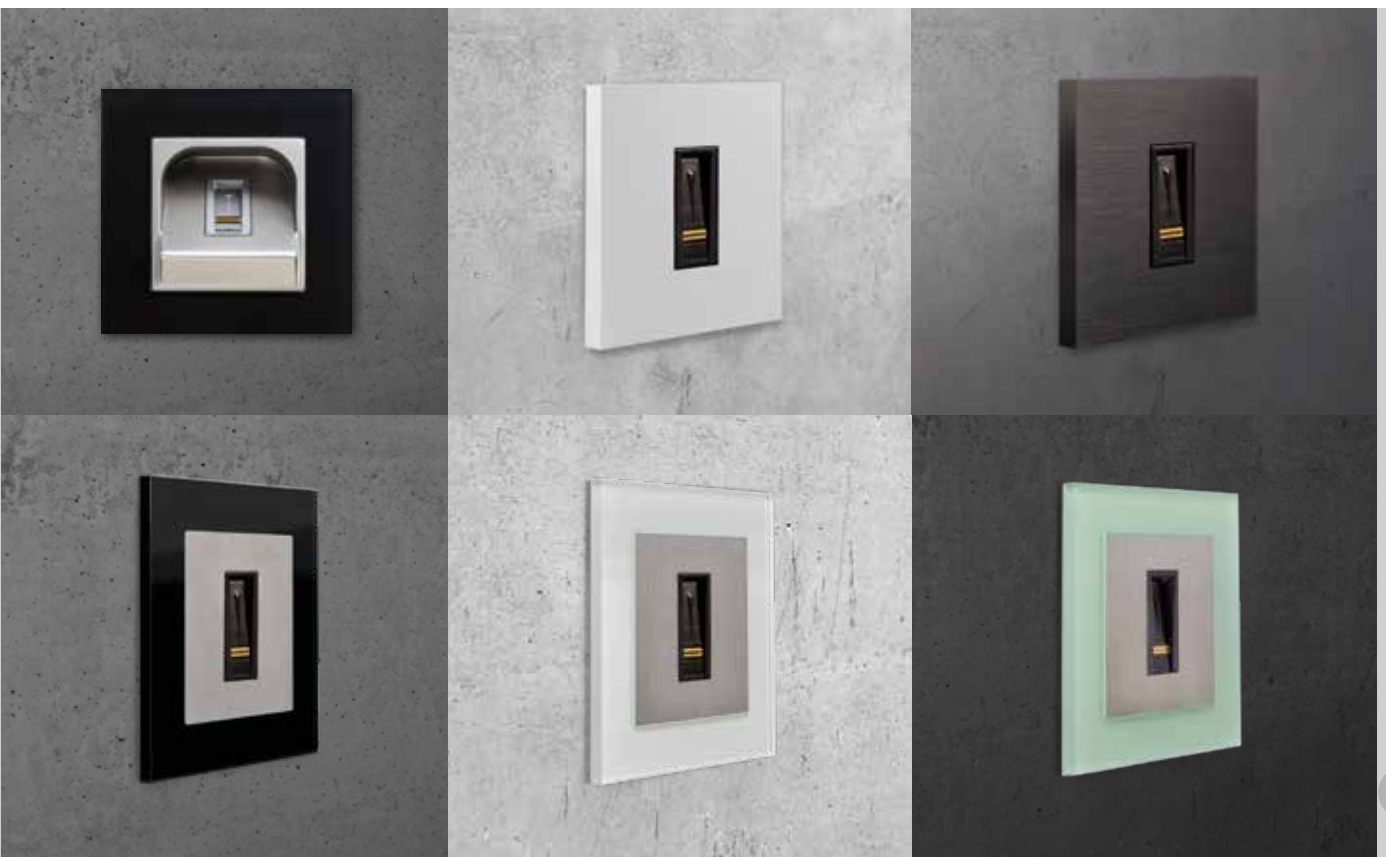## Control panel for DIN-rail mounting

Part no.	Description
101162	**ekey home CP DRM 1,** 1 relay
101312	**ekey home CP DRM 2,** 2 relays

• Dimensions W x H x D: 70 x 86 x 54 mm (4HP)
• Power consumption: approx. 1 W
• Supply voltage: 10-24 VDC
• Temperature range: -20 °C to 70 °C
• IP Code: IP20
• Relay:
   CP DRM 1, 1 x potential-free
   CP DRM 2, 2 x potential-free
• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
• Operation: 4 buttons
• RS-485 termination: switchable
	• Inputs (request-to-exit button):
	   CP DRM 1, 1 x potential-free
	   CP DRM 2, 2 x potential-free
	• Display: LCD 106 x 56 pixels,
	   7 lines/21 characters + 2 x 4 status LEDs
	• Enroll users, delete individual users, set relay
	   switching durations(0-99 s), change security code,
	   adjust LED brightness, reset, test mode, convenient
	   backlit text display, configurable inputs
	• KNX-compatible

Control panel wall-mounted

Part no.	Description
100478	**ekey home CP WM 1,** 1 relay
100479	**ekey home 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
• Relay: 1 or 3 relays
   CP WM 1, 1 x potential-free
   CP WM 3, 3 x potential-free
• IP Code: IP20
	• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
	• Display: 2 x 7-segment display, LED
	• Operation: 4 buttons
	• RS-485 termination: fixed
	• Enroll users, delete individual users, set relay
	   switching durations(0-99 s), change security code,
	   reset

Power supply

Part no.	Description
101700	**ekey PS WPS 230 VAC/12 VDC/0.8 A**, wall power supply
	• Dimensions W x H x D: 52 x 78.5 x 45 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/0.8 A • Cable length: 3.5 m
100204	**ekey PS OM 230 VAC/12 VDC/2 A,** power supply outlet-mounted
	• Dimensions Ø x H: 54 x 31 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/2 A • Temperature range: -5 °C to 50 °C
100205	**ekey PS DRM 230 VAC/12 VDC/2 A,** power supply for DIN-rail mounting
	• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3HP) • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/2 A • Temperature range: -10 °C to 45 °C
100891	**ekey PS DRM 230 VAC/24 VDC/2 A,** power supply for DIN-rail mounting*
	• Dimensions W x H x D: 70 x 93 x 66.5 mm (4HP) • Supply voltage: 230 VAC • Output voltage, output current: 24 VDC/2 A • Temperature range: -5 °C to 50 °C

! ***Important:** Not compatible with *ekey home CP WM 1* and *ekey home CP WM 3*.

Uninterruptible power supply

Our recommendation

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

	• Dimensions W x H x D:
	  UPS: 252 x 68 x 95 mm (6HP)
	  Battery: 157 x 93 x 66.5 mm (9HP)
	• Supply voltage: 195-265 VAC
	• 2 parts: UPS (switched-mode power supply) and battery
	• Output voltage, output current: 12 VDC/5 A • Temperature range: -10 °C to 40 °C
	• Function display: LED
	• Advantage: 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*

	• Dimensions W x H x D:
	  UPS: 403.2 x 93 x 66.5 mm (6HP)
	  Battery: 157 x 93 x 66.5 mm (9HP)
	• Supply voltage: 195-265 VAC
	• 3 parts: UPS (switched-mode power supply) and 2 x batteries
	• Output voltage, output current: 24 VDC/3 A • Temperature range: -10 °C to 40 °C
	• Function display: LED
	• Advantage: 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 home CP WM 1* and *ekey home CP WM 3*.

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

Complete set

Part no.	Description	
101165	**ekey home set OM E DRM 1,** with control panel for DIN-rail mounting, 1 relay	
	The complete set includes:	• *ekey home FS OM E* • *ekey bezel FS OM PW* • *ekey home CP DRM 1* • *ekey PS DRM 230 VAC/12 VAC/2 A*

Interface

Interface for connecting the equipment to home automation systems

Part no.	Description	
100460	**ekey home CV LAN RS-485**	
	• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol	• Scope of delivery: LAN converter, software

ekey home protocol

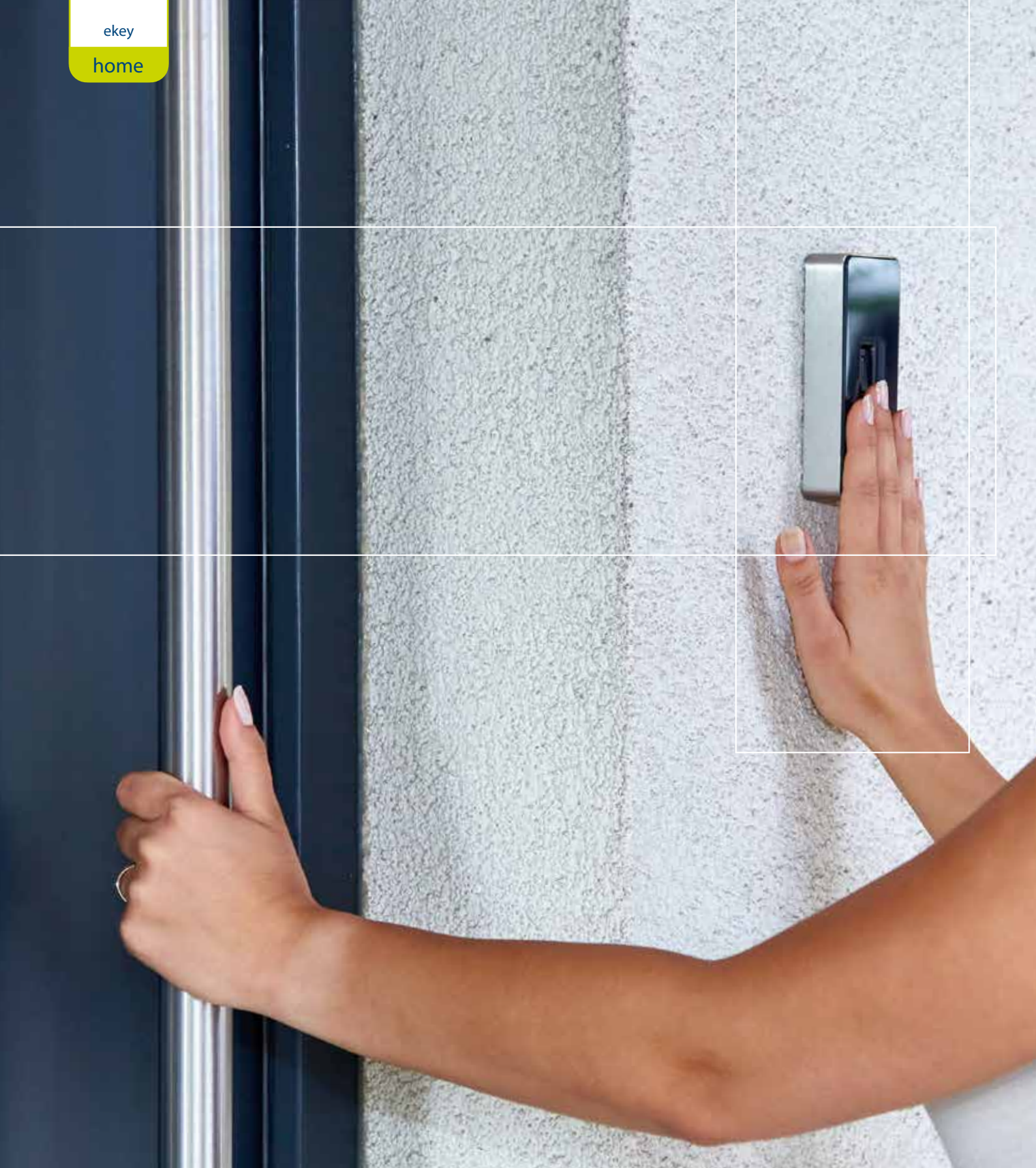| 1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output

Part no.	Description	
101719	**ekey home CV KNX RS-485**	
	• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus. • Makeup: DIN-rail mounting • Dimensions W x H x D: 18 x 98 x 61 mm (1HP) • Supply voltage: 12-24 VDC • Mounting type: DIN rail • RS-485 cable length: 10 m	• Number of RS-485 interfaces: 1 • RS-485 protocol: *ekey home* • 12 events (10 freely configurable, 1 "Unknown", 1 "Security") in addition to relay contacts on the control panel • Own ETS application (ETS 5) • Functions: Switching, sending values, selecting scenes • Assigning an event to a finger

PARTNER
KNX

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

Part no.	Description	
101582	**ekey home CV WIEG RS-485**	
	• The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the *ekey multi CV USB RS-485* (100433).	• Scope of delivery: Wiegand converter, software

*ekey finger scanner **integra***

For wall mounting, cavity wall mounting, and outlet mounting

Finger scanner

Part no.	Description
101794	**ekey home FS IN**
101795	**ekey home FS IN Bluetooth**
101797	**ekey home FS IN RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
101796	**ekey home FS IN Bluetooth RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1

• 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 (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
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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories – design element

Part no.	Description
	Design element FS IN
101254	**ekey design element FS IN SG,** stainless steel gray
101305	**ekey design element FS IN BL,** black
101304	**ekey design element FS IN WHI,** white
101303	**ekey design element FS IN GO,** gold
101973	**ekey design element FS IN AN,** anthracite
	Design element FS IN RFID
101688	**ekey design element FS IN RFID SG,** stainless steel gray*
101904	**ekey design element FS IN RFID BL,** black*
101933	**ekey design element FS IN RFID WHI,** white*
	Design element FS IN (RFID) GL
101978	**ekey design element FS IN (RFID) GL SG,** glass, stainless steel gray
101979	**ekey design element FS IN (RFID) GL AN,** glass, white
101980	**ekey design element FS IN (RFID) GL WHI,** glass, anthracite

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

Accessories – mounting frame

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 alarm 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

Part no.	Description
101803	**ekey mounting frame FS IN BeM GL WHI,** glass, white
101804	**ekey mounting frame FS IN BeM GL AN,** glass, anthracite
101807	**ekey mounting frame FS IN BeM GL WHI LED,** glass, white with alarm LEDs
101808	**ekey mounting frame FS IN BeM GL AN LED,** glass, anthracite with alarm LEDs

- Dimensions W x H x D: 53.5 x 171 x 24 mm
- Material: Stainless steel, glass
- Recommended mounting height: 155 cm
- 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

Part no.	Description
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

Part no.	Description
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:** Only available in conjunction with ekey design elements.

Control panel

Control panel for DIN-rail mounting

Part no.	Description
101162	**ekey home CP DRM 1,** 1 relay
101312	**ekey home CP DRM 2,** 2 relays

- Dimensions W x H x D: 70 x 86 x 54 mm (4HP)
- Power consumption: approx. 1 W
- Supply voltage: 10-24 VDC
- Temperature range: -20 °C to 70 °C
- IP Code: IP20
- Relay:
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
- Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
- Operation: 4 buttons
- RS-485 termination: switchable

- Inputs (request-to-exit button):
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
- Display: LCD 106 x 56 pixels,
  7 lines/21 characters + 2 x 4 status LEDs
- Enroll users, delete individual users, set relay switching durations(0-99 s), change security code, adjust LED brightness, reset, test mode, convenient backlit text display, configurable inputs
- KNX-compatible

Control panel wall-mounted

Part no.	Description
100478	**ekey home CP WM 1,** 1 relay
100479	**ekey home 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
• Relay: 1 or 3 relays
  CP WM 1, 1 x potential-free
  CP WM 3, 3 x potential-free
• IP Code: IP20
	• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
	• Display: 2 x 7-segment display, LED
	• Operation: 4 buttons
	• RS-485 termination: fixed
	• Enroll users, delete individual users, set relay switching durations(0-99 s), change security code, reset

Control panel mini

Part no.	Description
101626	**ekey home CP mini 1,** 1 relay
101770	**ekey home CP mini 2,** 2 relays

• Dimensions W x H x D: 25 x 60 x 42 mm (1HP)
• 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)
	• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
	• Relay: 1 or 2 relays
	  CP mini 1, 1 x potential-free
	  CP mini 2, 2 x potential-free
	• Inputs (request-to-exit button):
	  CP mini 1, 1 x potential-free
	• Reset button on the control panel

Power supply

Part no.	Description
101700	**ekey PS WPS 230 VAC/12 VDC/0.8 A**, wall power supply
	• Dimensions W x H x D: 52 x 78.5 x 45 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/0.8 A • Cable length: 3.5 m
100204	**ekey PS OM 230 VAC/12 VDC/2 A,** power supply outlet-mounted
	• Dimensions Ø x H: 54 x 31 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/2 A • Temperature range: -5 °C to 50 °C
100205	**ekey PS DRM 230 VAC/12 VDC/2 A,** power supply for DIN-rail mounting
	• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3HP) • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/2 A • Temperature range: -10 °C to 45 °C
100891	**ekey PS DRM 230 VAC/24 VDC/2 A,** power supply for DIN-rail mounting*
	• Dimensions W x H x D: 70 x 93 x 66.5 mm (4HP) • Supply voltage: 230 VAC • Output voltage, output current: 24 VDC/2 A • Temperature range: -5 °C to 50 °C

! ***Important:** Not compatible with *ekey home CP WM 1* and *ekey home CP WM 3*.

Uninterruptible power supply

Our recommendation

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

• Dimensions W x H x D: UPS: 252 x 68 x 95 mm (6HP) Battery: 157 x 93 x 66.5 mm (9HP) • Supply voltage: 195-265 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC/5 A	• Temperature range: -10 °C to 40 °C • Function display: LED • Advantage: 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.

Part no.	Description
101593	**ekey UPS DRM 230 VAC/24 VDC/3 A + REBAT 4 Ah,** for DIN-rail mounting*

• Dimensions W x H x D: UPS: 403.2 x 93 x 66.5 mm (6HP) Battery: 157 x 93 x 66.5 mm (9HP) • Supply voltage: 195-265 VAC • 3 parts: UPS (switched-mode power supply) and 2 x batteries • Output voltage, output current: 24 VDC/3 A	• Temperature range: -10 °C to 40 °C • Function display: LED • Advantage: 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 home CP WM 1* and *ekey home CP WM 3.*

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

Complete set

Part no.	Description
101313	**ekey home set IN DRM 1,** with control panel for DIN-rail-mounting, 1 relay

The complete set includes:	• *ekey home FS IN* • *ekey design element FS IN SG* • *ekey home CP DRM 1* • *ekey PS DRM 230 VAC/12 VDC/2 A*

Part no.	Description
101583	**ekey home set IN BT mini 1,** with control panel mini, 1 relay

The complete set includes:	• *ekey home FS IN Bluetooth* • *ekey design element FS IN SG* • *ekey home CP mini 1* • *ekey PS DRM 230 VAC/12 VDC/2 A*

Part no.	Description
101287	**ekey home set IN WM 1,** with control panel wall-mounted, 1 relay
The complete set includes:	• *ekey home FS IN* • *ekey design element FS IN SG* • *ekey home CP WM 1* • *ekey PS WPS 230 VAC/12 VDC/0.8 A*

All-in-One complete sets
Open your door with a finger, transponder, or app!

Part no.	Description
101863	**ekey home set IN BT RFID mini 1 GL AN,** with control panel mini, 1 relay
The complete set includes:	• *ekey home FS IN Bluetooth RFID* • *ekey mounting frame FS IN GL AN* • *ekey home CP mini 1* • *ekey PS WPS 230 VAC/12 VDC/0.8 A*

Part no.	Description
101864	**ekey home set IN BT RFID mini 1 GL WHI,** with control panel mini, 1 relay
The complete set includes:	• *ekey home FS IN Bluetooth RFID* • *ekey mounting frame FS IN GL WHI* • *ekey home CP mini 1* • *ekey PS WPS 230 VAC/12 VDC/0.8 A*

Part no.	Description
101865	**ekey home set IN BT RFID mini 1 BeM GL AN,** with control panel mini, 1 relay
The complete set includes:	• *ekey home FS IN Bluetooth RFID* • *ekey mounting frame FS IN BeM GL AN* • *ekey home CP mini 1* • *ekey PS WPS 230 VAC/12 VDC/0.8 A*

Part no.	Description
101866	**ekey home set IN BT RFID mini 1 BeM GL WHI,** with control panel mini, 1 relay
The complete set includes:	• *ekey home FS IN Bluetooth RFID* • *ekey mounting frame FS IN BeM GL WHI* • *ekey home CP mini 1* • *ekey PS WPS 230 VAC/12 VDC/0.8 A*

Interface

Interface for connecting the equipment to home automation systems

Part no.	Description	
100460	**ekey home CV LAN RS-485**	
	• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol	• Scope of delivery: LAN converter, software

ekey home protocol

1	0046	4	80004426110003	1	2
Packet type	User ID	Finger ID	Finger scanner serial number	Action	Relay output

Part no.	Description	
101719	**ekey home CV KNX RS-485**	
PARTNER KNX	• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus. • Makeup: DIN-rail mounting • Dimensions W x H x D: 18 x 98 x 61 mm (1HP) • Supply voltage: 12-24 VDC • Mounting type: DIN rail • RS-485 cable length: 10 m	• Number of RS-485 interfaces: 1 • RS-485 protocol: *ekey home* • 12 events (10 freely configurable, 1 "Unknown", 1 "Security") in addition to relay contacts on the control panel • Own ETS application (ETS 5) • Functions: Switching, sending values, selecting scenes • Assigning an event to a finger

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

Part no.	Description	
101582	**ekey home CV WIEG RS-485**	
	The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the *ekey multi CV USB RS-485* (100433).	• Scope of delivery: Wiegand converter, software

Interface for connecting the equipment to KNX systems

Mfr.	Description	
netyard	**ekey KNX CONNECT**	
	The *ekey KNX CONNECT* is based on the ISE SMART KNX PROGRAMMABLE, which easily and reliably connects the ekey system to the KNX bus. 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.	• Further information: *www.netyard.de/en/*

ekey home app

GET CONNECTED!

Simple, secure, convenient.

ACCESS
- Open doors via app (smartphone/tablet device)
- Assign access authorization with a user code
- Provide temporary access (while on vacation, for example)

USER ADMINISTRATION
- Easy to create, manage, and delete users
- Enable or disable users at the touch of a button
- Assign authorizations for defined access
- Store fingers via the app
- Easy administration of up to 99 fingerprints
- Administration of up to 99 RFID transponders*

SECURITY
- Administrator and user level
- 4 to 6-digit app security code
- Enhanced security thanks to 6-digit coupling code
- Administrator is able to change and administer security codes
- Deactivate the finger scanner's Bluetooth function

USEFUL TOOLS
- Adjustable LED brightness on the finger scanner
- Relay switching times can be set individually
- Reset the system to default settings

The *ekey home app* is only compatible with the
ekey home – single-point access solutions system!

* Only in the case of ekey finger scanner integra Bluetooth RFID

FREE for ANDROID and iOS >>>

Available languages:
DE | EN | IT | FR | ES | CS | PL | RU

GET IT ON
Google Play

Download on the
App Store

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ekey home app – fool-proof menu navigation:

Code pad *ekey keypad integra*

The alternative to the finger scanner

Code pad

Part no.	Description
101809	**ekey home KP IN**

• 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 99 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	**ekey mounting frame KP IN BeM GL WHI,** glass, white
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
	• Dimensions W x H x D: 53.5 x 171 x 24 mm • 2 buttons to trigger a bell electronically • Material: Stainless steel, glass

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:** Only available in conjunction with ekey design elements.

Control panel

Control panel for DIN-rail mounting

Part no.	Description
101162	**ekey home CP DRM 1,** 1 relay
101312	**ekey home CP DRM 2,** 2 relays

• Dimensions W x H x D: 70 x 86 x 54 mm (4HP)
• Power consumption: approx. 1 W
• Supply voltage: 10-24 VDC
• Temperature range: -20 °C to 70 °C
• IP Code: IP20
• Relay:
  CP DRM 1, 1 x potential-free
  CP DRM 2, 2 x potential-free
• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
• Operation: 4 buttons
• RS-485 termination: switchable
	• Inputs (request-to-exit button):
	  CP DRM 1, 1 x potential-free
	  CP DRM 2, 2 x potential-free
	• Display: LCD 106 x 56 pixels,
	  7 lines/21 characters + 2 x 4 status LEDs
	• Enroll users, delete individual users, set relay
	  switching durations(0-99 s), change security code,
	  adjust LED brightness, reset, test mode, convenient
	  backlit text display, configurable inputs
	• KNX-compatible

Control panel wall-mounted

Part no.	Description
100478	**ekey home CP WM 1,** 1 relay
100479	**ekey home 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
• Relay: 1 or 3 relays
  CP WM 1, 1 x potential-free
  CP WM 3, 3 x potential-free
• IP Code: IP20
	• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
	• Display: 2 x 7-segment display, LED
	• Operation: 4 buttons
	• RS-485 termination: fixed
	• Enroll users, delete individual users, set relay
	  switching durations(0-99 s), change security code,
	  reset

Control panel mini

Part no.	Description
101626	**ekey home CP mini 1,** 1 relay
101770	**ekey home CP mini 2,** 2 relays

- Dimensions W x H x D: 25 x 60 x 42 mm (1HP)
- 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)

- Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
- Relay: 1 or 2 relays
  CP mini 1, 1 x potential-free
  CP mini 2, 2 x potential-free
- Inputs (request-to-exit button):
  CP mini 1, 1 x potential-free
- Reset button on the control panel

Power supply

Part no.	Description
101700	**ekey PS WPS 230 VAC/12 VDC/0.8 A**, wall power supply

- Dimensions W x H x D: 52 x 78.5 x 45 mm
- Supply voltage: 230 VAC

- Output voltage, output current: 12 VDC/0.8 A
- Cable length: 3.5 m

| 100204 | **ekey PS OM 230 VAC/12 VDC/2 A,** power supply outlet-mounted |

- Dimensions Ø x H: 54 x 31 mm
- Supply voltage: 230 VAC

- Output voltage, output current: 12 VDC/2 A
- Temperature range: -5 °C to 50 °C

| 100205 | **ekey PS DRM 230 VAC/12 VDC/2 A,** power supply for DIN-rail mounting |

- Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP)
- Supply voltage: 230 VAC

- Output voltage, output current: 12 VDC/2 A
- Temperature range: -10 °C to 45 °C

| 100891 | **ekey PS DRM 230 VAC/24 VDC/2 A,** power supply for DIN-rail mounting* |

- Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP)
- Supply voltage: 230 VAC

- Output voltage, output current: 24 VDC/2 A
- Temperature range: -5 °C to 50 °C

! ***Important:** Not compatible with *ekey home CP WM 1* and *ekey home CP WM 3*.

Uninterruptible power supply

Our recommendation

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

- Dimensions W x H x D:
  UPS: 252 x 68 x 95 mm (6HP)
  Battery: 157 x 93 x 66.5 mm (9HP)
- Supply voltage: 195-265 VAC
- 2 parts: UPS (switched-mode power supply) and battery
- Output voltage, output current: 12 VDC/5 A

- Temperature range: -10 °C to 40 °C
- Function display: LED
- Advantage: 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.

Part no.	Description
101593	**ekey UPS DRM 230 VAC/24 VDC/3 A + REBAT 4 Ah,** for DIN-rail mounting*

- Dimensions W x H x D:
  UPS: 403.2 x 93 x 66.5 mm (6HP)
  Battery: 157 x 93 x 66.5 mm (9HP)
- Supply voltage: 195-265 VAC
- 3 parts: UPS (switched-mode power supply) and 2 x batteries
- Output voltage, output current: 24 VDC/3 A

- Temperature range: -10 °C to 40 °C
- Function display: LED
- Advantage: 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 home CP WM 1* and *ekey home CP WM 3*.

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

Complete set

Part no.	Description
101584	**ekey home set KP mini 1,** with control panel mini 1, 1 relay

The complete set includes:

- *ekey home KP IN*
- *ekey design element KP IN GL AN*
- *ekey home CP mini 1*
- *ekey PS DRM 230 VAC/12 VDC/2 A*

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

ekey multi
Multi-point access solutions

Garden ga

The ideal access solution for private homes and companies.

ekey multi is a revolutionary access control system which can be used for the administration of up to 4 finger scanners in a small network. What makes ekey multi really special is that it is programmed directly on an allocated control panel with no need for a PC.

Each user is able to trigger several actions. Individual access rights (including time slots) are easy to assign to specific users (e.g., family members and guests or employees and cleaning staff) via the control panel.
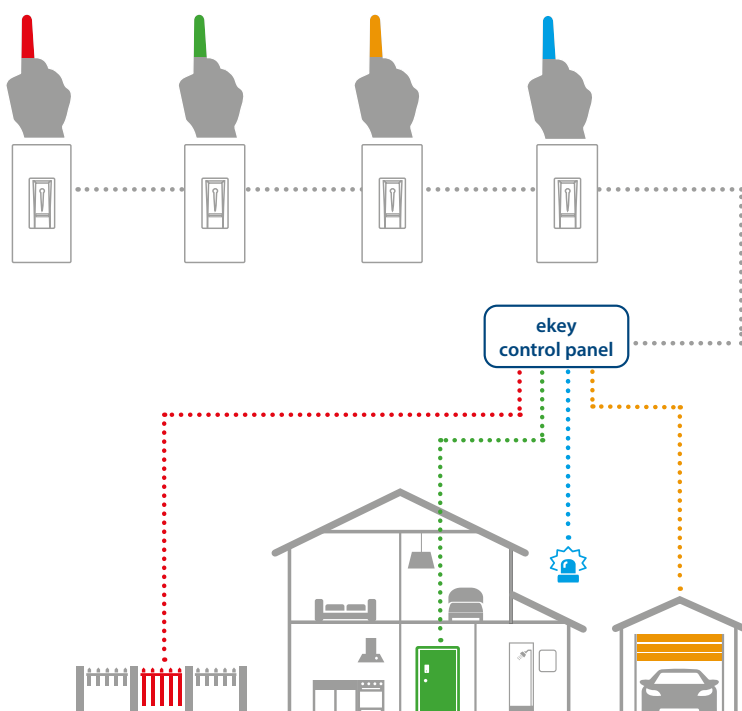
Short facts:

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 FS (e.g., door, gate, and alarm system)
• Individually programmable time slots
• Access log for every finger scanner
• Easy to operate with central user administration directly via the control panel
• User permissions can be assigned on a personalized basis (based on location and time)
• Vacation or permanent program
• Optional: Transponder access (RFID) is possible
 -> Can also store up to 99 transponders

*Alternatively: Code pad (keypad) -> can store up to 99 codes

👍 **Example: Single family house**

Customer requirements:
The customer wants to use *ekey multi* and finger scanners or a code pad to control three entrance points and the alarm system. There should be only one way to activate or deactivate the alarm system: from the finger scanner at the front door with a separate finger. Martha and Frank must be able to access all areas. Lucas is not allowed to open the garage door.
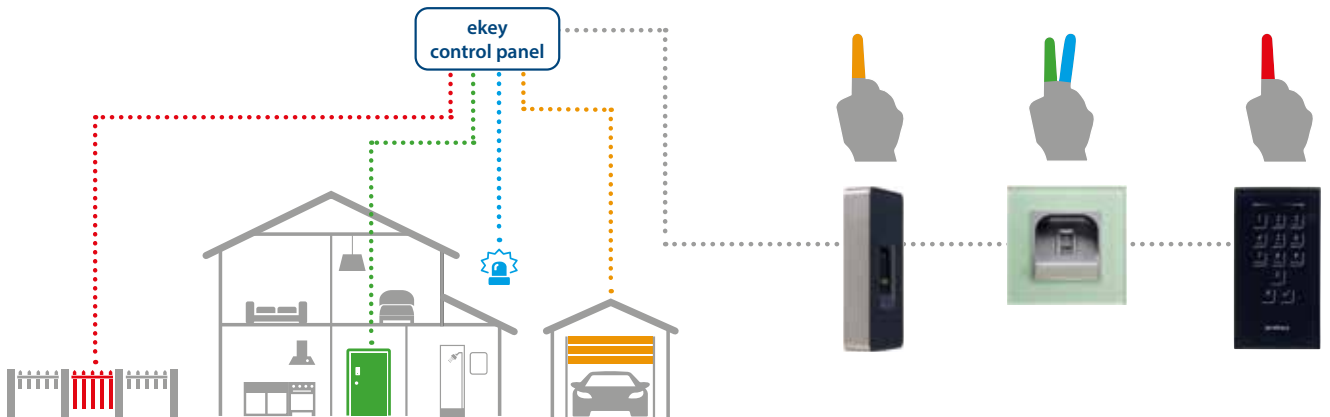
	Paul	Sarah	John	
Front door	🖐️	🖐️	🖐️	
Alarm system	🖐️	🖐️	🖐️	
Garage door	🖐️	🖐️		
Garden gate	🖐️	🖐️	🖐️	

Front door	Garage door	Garden gate	Control panel	Power supply
+	+	+	+	

Steps in the planning process
How to plan properly:

1 Select 1-4 suitable finger scanner models and functions (RFID) 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.

2 Select the *ekey multi*control panel.

3 Select a suitable power supply:
a) Convenient DIN-rail-mounted power supply inside the distribution box (*PS DRM*)
b) Flush mount back box power supply (*PS OM*)
c) Uninterruptible power supply (*UPS*)

⚠ **Attention:** The scope of delivery for door stations often includes a power supply, which can be used for both finger scanners and code pads. Check the voltage and current needed to control the consumers (door opener, motorized lock). The scope of delivery for motorized locks usually includes a power supply.

4 Select a suitable interface (converter), if required:
a) For connecting the equipment to home automation systems (*ekey converter CV LAN* and *CV KNX*)
b) For connecting the equipment to alarm systems or other access control systems (*ekey converter CV WIEG*)
c) ekey KNX Connect (netyard)

! For door openers and motorized locks, please note:
a) Although door openers are relatively inexpensive, they do not lock the door
   (you may not be covered in the event of a break-in).
b) A motorized lock engages automatically (via mechanical or motorized means) and opens electronically (via motorized means).
   Advise your customers to purchase a motorized lock or an electric strike when buying a door.

Step 1: Select 1-4 suitable finger scanners/code pads.

Finger scanner wall-mounted

Part no.	Description
101405	**ekey home FS WM,** steel gray
101667	**ekey home FS WM RFID,** steel gray, incl. 2 ekey RFID cards MIFARE DESFire EV1
	• 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
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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

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
101418	**ekey cover FS WM ST,** brushed stainless steel
	• 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

Finger scanner outlet-mounted

Outlet-mounted I for integration into door stations

Part no.	Description
101310	**ekey home FS OM I**
101671	**ekey home FS OM I RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
102008	**ekey home FS OM I BL,** black
102009	**ekey home FS OM I BL RFID**, black, incl. 2 ekey RFID cards MIFARE DESFire EV1

- 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, letterboxes, wall-mounting sets

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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories

Part no.	Description
	Build-in modules for door stations Gira
101380	**ekey Modul GIRA TX44 AlG,** aluminum gray
101381	**ekey Modul GIRA TX44 AN,** anthracite
101382	**ekey Modul GIRA TX44 PW,** pure white
	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
	Build-in modules for door stations Elvox
101552	**ekey Modul Elvox Serie 8000 GR,** gray
	Build-in modules for door stations Bticino
101533	**ekey Modul bticino Sfera AME,** Allmetal
101534	**ekey Modul bticino Sfera AWH,** Allwhite
101535	**ekey Modul bticino Sfera AST,** Allstreet
101536	**ekey Modul bticino Sfera ROB,** Robur
	Build-in modules for door stations Comelit
101473	**ekey Modul Comelit ikall SC,** buld-in module, black, with FS OM E
101629	**ekey Modul Comelit ikall Metal,** build-in module, Metal, with FS OM E

❗ **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 letterboxes:

bticino　Telecom Behnke　urmet　Comelit　ELCOM.　FERMAX　ELVOX　KO(H　2N　MOBOTIX

SYSTEMS LPPIB　SiBLiK Wir schalten schneller.　SIEDLE　RiTTO　STR ELEKTRONIK　Stentofon Baudisch　GIRA　RENZ　TCS　wantec

Outlet-mounted E for integration into Siedle Vario flush-mounted door stations

Part no.	Description
101148	**ekey home FS OM E**
101673	**ekey home FS OM E RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
102007	**ekey home FS OM E BL,** black
102010	**ekey home FS OM E BL RFID**, black, incl. 2 ekey RFID cards MIFARE DESFire EV1

- 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
- 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, compatible with many switch ranges with 50 x 50 mm internal dimension
- Incl. bezel, mounting bracket, spacers, sealing flange

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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories - Siedle Vario

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

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

! ***Important:** Not compatible with the Siedle Vario surface-mounted door station.

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

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

Accessories - 2N Verso

Part no.	Description
101993	**ekey Modul 2N IP Verso BL**

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

Finger scanner outlet-mounted E

For integration into switch frames

Part no.	Description
101148	**ekey home FS OM E**
101673	**ekey home FS OM E RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1
102007	**ekey home FS OM E BL,** black
102010	**ekey home FS OM E BL RFID**, black, incl. 2 ekey RFID cards MIFARE DESFire EV1
	• 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 • 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, compatible with many switch ranges with 50 x 50 mm internal dimension • Incl. bezel, mounting bracket, spacers, sealing flange
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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories – bezel

Part no.	Description
101166	**ekey bezel FS OM PW 50x50,** plastic, pure white
101167	**ekey bezel FS OM AIG 50x50,** plastic, aluminum gray
101168	**ekey bezel FS OM AN 50x50,** plastic, anthracite

Accessories – frame basalte

Part no.	Description
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 maximum IP33 protection and is designed for interior use

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

BUSCH-JAEGER merten by Schneider Electric B. Berker JUNG GIRA :hager basalte

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

! The *ekey FS OM E* has been designed for installation in flush mount back boxes in accordance with DIN 49073.

Cavity wall box

60mm

Flush mount back box for use in plasterwork

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 IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm grain size 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 IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm grain size around the electrical outlet.
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 IP 44 protection for use outdoors on exterior rendering with max. 1.5 mm grain size around the electrical outlet type 503.

⚠ **Attention:** RFID function is not possible with *ekey frame FS OM ST*!

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.
101838	**ekey cavity wall box WHI,** for mounting frame FS OM	
	• Dimensions W x H x D: 83 x 83 x 65 mm	• Material: Plastic
101896	**ekey integrationkit FS OM E**	
101901	**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 (letterboxes, 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*

⚠ ***Notice:*** The adhesive tape is a mounting aid and has not been tested by ekey for all applications. The installer must always check the appropriate way to affix the *ekey integrationkit FS OM E* for each particular application.

Finger scanner integra

Part no.	Description
101794	**ekey home FS IN**
101797	**ekey home FS IN RFID,** incl. 2 ekey RFID cards MIFARE DESFire EV1

• 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 (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
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 MIFARE DESFire EV1 2 KB,** black, ISO 14443 A

Accessories – design element

Part no.	Description
	Design element FS IN
101254	**ekey design element FS IN SG,** stainless steel gray
101305	**ekey design element FS IN BL,** black
101304	**ekey design element FS IN WHI,** white
101303	**ekey design element FS IN GO,** gold
101973	**ekey design element FS IN AN,** anthracite
	Design element FS IN RFID
101688	**ekey design element FS IN RFID SG,** stainless steel gray*
101904	**ekey design element FS IN RFID BL,** black*
101933	**ekey design element FS IN RFID WHI,** white*
	Design element FS IN (RFID) GL
101978	**ekey design element FS IN (RFID) GL SG,** glass, stainless steel gray
101979	**ekey design element FS IN (RFID) GL AN,** glass, white
101980	**ekey design element FS IN (RFID) GL WHI,** glass, anthracite

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

Accessories – mounting frame

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 alarm 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

Part no.	Description
101803	**ekey mounting frame FS IN BeM GL WHI,** glass, white
101804	**ekey mounting frame FS IN BeM GL AN,** glass, anthracite
101807	**ekey mounting frame FS IN BeM GL WHI LED,** glass, white with alarm LEDs
101808	**ekey mounting frame FS IN BeM GL AN LED,** glass, anthracite with alarm LEDs
	• Dimensions W x H x D: 53.5 x 171 x 24 mm • Material: Stainless steel, glass	• Recommended mounting height: 155 cm • 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:** Only available in conjunction with ekey design elements.

Code pad *keypad integra*

Part no.	Description
101809	**ekey home KP IN**
	• 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 99 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	**ekey mounting frame KP IN BeM GL WHI,** glass, white
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
	• Dimensions W x H x D: 53.5 x 171 x 24 mm • 2 buttons to trigger a bell electronically • Material: Stainless steel, glass

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:** Only available in conjunction with ekey design elements.

Perfect match.
ekey integra + keypad.

Steuereinheit

Step 2: Select the
ekey multi control panel.

Control panel

Part no.	Description
101163	**ekey multi CP DRM 4,** 4 relays

• Dimensions W x H x D: 70 x 86 x 54 mm (4HP)
• Power consumption: approx. 1 W
• Supply voltage: 10-24 VDC
• Temperature range: -20 °C to 70 °C
• IP Code: IP20
• Relay: 4 x potential-free
• Max. relay voltage, max. relay current: 42 VAC/DC; 2 A
• Operation: 4 buttons
• RS-485 termination: switchable
• 8 languages can be set
• Inputs (request-to-exit button): 4 x potential-free
	• Display: LCD 106 x 56 pixels,
	  7 lines/21 characters + 2 x 4 status LEDs
	• Runtime buffer for built-in clock: 96 h
	• Connect up to 4 finger scanners/code pads,
	  enroll users, delete individual users, set relay
	  switching durations(0-99 s), change security code,
	  reset, adjust LED brightness, test mode, 3 time zones,
	  access log, master key plan, names input, vacation
	  and permanent program, configurable inputs
	• KNX-compatible

Accessories

Part no.	Description
100433	**ekey multi CV USB RS-485**

• *ekey multi* data backup on PC
  (finger templates, control panel configuration,
  log files, etc.)
• Configuration of the ekey Wiegand converter (101582)
	• Scope of delivery: USB converter, software, USB cable

Step 3: Select a suitable power supply.

Power supply

Part no.	Description
100204	**ekey PS OM 230 VAC/12 VDC/2 A,** power supply outlet-mounted
	• Dimensions Ø x H: 54 x 31 mm • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/2 A • Temperature range: -5 °C to 50 °C
100205	**ekey PS DRM 230 VAC/12 VDC/2 A,** power supply for DIN-rail mounting
	• Dimensions W x H x D: 52.5 x 93 x 68.5 mm (3 HP) • Supply voltage: 230 VAC • Output voltage, output current: 12 VDC/2 A • Temperature range: -10 °C to 45 °C
100891	**ekey PS DRM 230 VAC/24 VDC/2 A,** power supply for DIN-rail mounting
	• Dimensions W x H x D: 70 x 93 x 66.5 mm (4 HP) • Supply voltage: 230 VAC • Output voltage, output current: 24 VDC/2 A • Temperature range: -5 °C to 50 °C

Uninterruptible power supply

Our recommendation

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
	• Dimensions W x H x D: UPS: 252 x 68 x 95 mm (6HP) Battery: 157 x 93 x 66.5 mm (9HP) • Supply voltage: 195-265 VAC • 2 parts: UPS (switched-mode power supply) and battery • Output voltage, output current: 12 VDC/5 A • Temperature range: -10 °C to 40 °C • Function display: LED • Advantage: 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
	• Dimensions W x H x D: UPS: 403.2 x 93 x 66.5 mm (6HP) Battery: 157 x 93 x 66.5 mm (9HP) • Supply voltage: 195-265 VAC • 3 parts: UPS (switched-mode power supply) and 2 x batteries • Output voltage, output current: 24 VDC/3 A • Temperature range: -10 °C to 40 °C • Function display: LED • Advantage: 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.

Attention: The scope of delivery for door stations often includes a power supply, which can be used for finger scanners and code pads too. Check the voltage and current needed to control the consumers (door opener, motorized lock). The scope of delivery for motorized locks usually includes a power supply.

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

Step 4: Select a suitable interface, if required.

Connection to home automation systems

Part no.	Description
100460	**ekey home CV LAN RS-485**
	• RS-485/LAN interface for connection to third-party systems (e.g., KNX) with UDP protocol • Scope of delivery: LAN converter, software

ekey multi protocol

1	0012	PAUL	1	8	1	80131004120001	GAR	1	-
Packet type	User ID	User name	User status	Finger ID	Key	Finger scanner serial number	Finger scanner name	Action	Input ID

Part no.	Description
101719	**ekey home CV KNX RS-485**
	• The ekey KNX converter is used to trigger functions in home automation systems based on the KNX home automation bus. • Makeup: DIN-rail mounting • Dimensions W x H x D: 18 x 98 x 61 mm (1HP) • Supply voltage: 12-24 VDC • Mounting type: DIN rail • RS-485 cable length: 10 m	• Number of RS-485 interfaces: 1 • RS-485 protocol: *ekey home* • 12 events (10 freely configurable, 1 "Unknown", 1 "Security") in addition to relay contacts on the control panel • Own ETS application (ETS 5) • Functions: Switching, sending values, selecting scenes • Assigning an event to a finger

PARTNER
KNX

Connection to alarm systems or other access control systems

Part no.	Description
101582	**ekey home CV WIEG RS-485**
	The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol. The product can be configured with the *ekey multi CV USB RS-485* (100433). • Scope of delivery: Wiegand converter, software

Interface for connecting the equipment to KNX systems

Mfr.	Description
netyard	**ekey KNX CONNECT**
	The *ekey KNX CONNECT* is based on the ISE SMART KNX PROGRAMMABLE, which easily and reliably connects the ekey system to the KNX bus. 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. • Further information: *www.netyard.de/en/*

Upgrade solutions

from *ekey finger scanner **wall-mounted 1.0** to **outlet-mounted E** or **wall-mounted 2.0***

Upgrade solution to *finger scanner outlet-mounted E*

Part no.	Description
On request	**ekey wall-mounting set FS WM 1.0 upgrade set**

• With this upgrade set, these accessories can be used after the lifetime of an *ekey FS WM 1.0* has ended. The wall-mounting set is reconstructed in a way that allows room for an *ekey FS OM E*. Cutting and milling work is not necessary for the reconstruction. Everything can be screwed and glued.	Scope of delivery: • Front panel made of stainless steel • Mounting bracket • Screws for *FS OM E*

! **Attention:** RFID function is not possible with *ekey wall-mounting set WM 1.0 upgrade set*!

! **Notice:** Reconstruction work is done in the ekey factory.

Upgrade solution to *finger scanner wall-mounted 2.0*

Part no.	Description
101753	**ekey mounting plate FS WM ST**

|	
• ekey mounting plate made of stainless steel for the *ekey finger scanner wall-mounted 2.0* is used as a mounting aid for the *ekey finger scanner wall-mounted 2.0* on top of electronic flush mount back boxes. It is also used as a mounting aid during upgrades of the *ekey finger scanner wall-mounted 1.0* to version 2.0.	Scope of delivery: • Mounting plate made of stainless steel • Screw anchors • Stainless steel screws

Know who is at the door!

Integrating ekey finger scanners into building control systems

SMART
HOME
ready

HOME AUTOMATION.

Integration of the ekey finger scanner
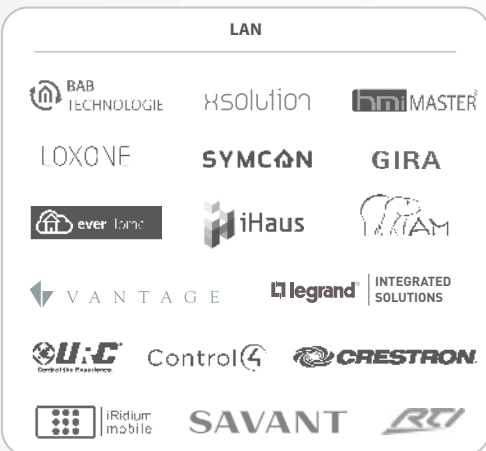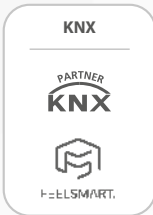in your building control system.

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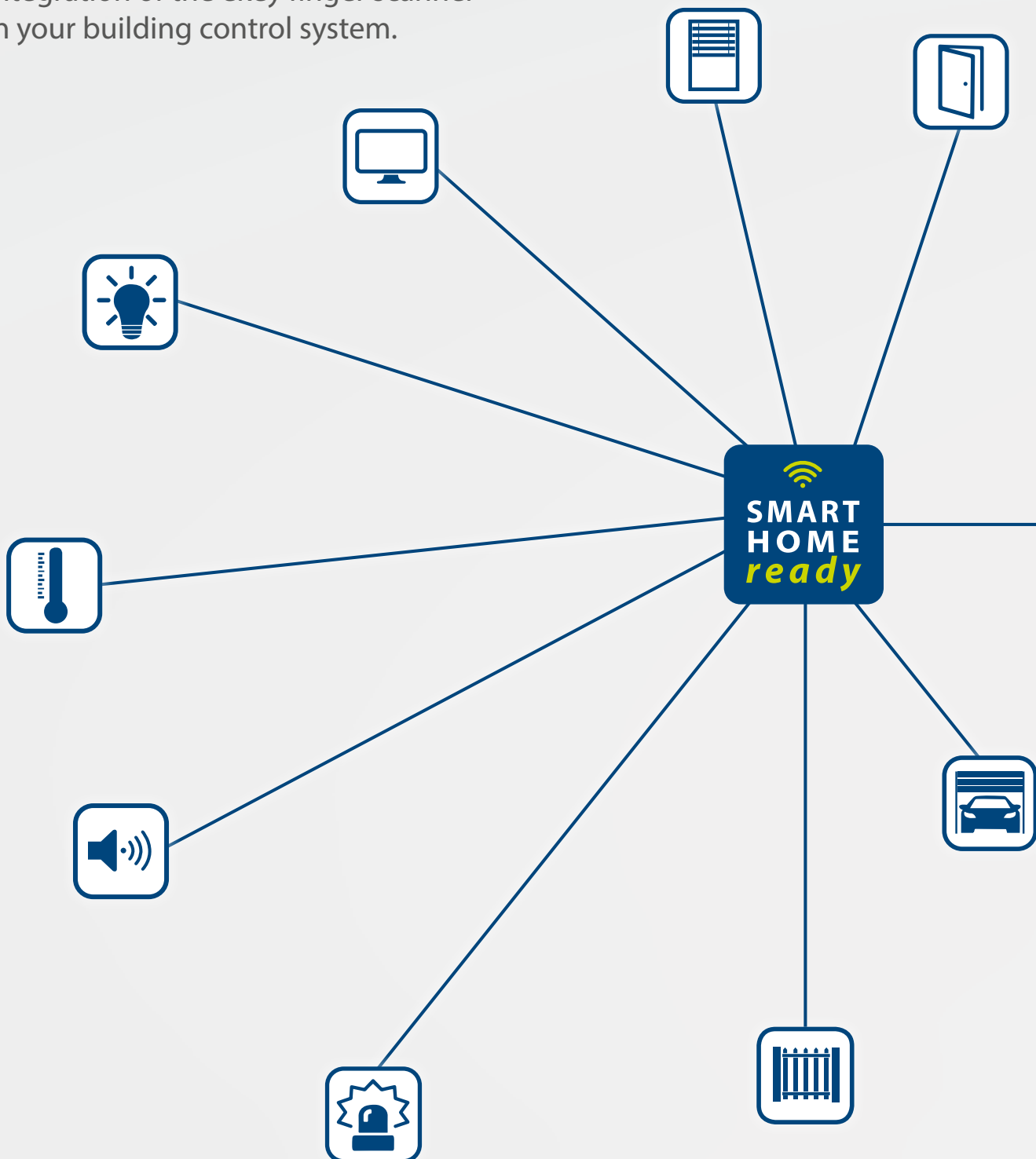
An ekey finger scanner
can do more than just open doors.

With the right ekey interface (converter),
you can trigger a wide range of actions
via your building control system.

**INTERFACES
FOR INTEGRATION
INTO BUILDING
CONTROL SYSTEMS**

KNX

PARTNER
KNX

FEELSMART.

FSX

BECKHOFF   myGEKKO   evon Smart Home

CRESTRON   habitron
hausautomation und gebäudesteuerung

LAN

BAB TECHNOLOGIE   xsolution   hmi MASTER

LOXONE   SYMCON   GIRA

ever home   iHaus   myAM

VANTAGE   legrand INTEGRATED SOLUTIONS

URC   Control4   CRESTRON

iRidium mobile   SAVANT   RTI

The advantages of ekey finger scanners in conjunction with building control systems.

UNIQUE IDENTIFICATION
creates the ideal conditions for a home automation system that works at maximum efficiency so that **your house knows who is home!**

PERSON-SPECIFIC CONFIGURATIONS, for example
- Children: Disabling the stove, enabling the camera in the house
- Light setting control, heating/air conditioning control, shading

ACCESS CONTROL
- Thanks to the access log, you know who triggered an action, and when and where they did so!
- It is also possible to use the system for time-recording purposes!
- Information about whether an authorized finger has been swiped over the registration unit.
- Time-dependent authorizations, e.g., cleaner (Friday between 8:00 and 12:00)

DIFFERENT ACTIONS can be triggered with different fingers, for example
- Enabling/disabling the alarm system
- Checking in and out (in the building control system)
- Opening doors, gates, etc.
- Switching various controls

SAVING ENERGY
- By controlling all sections of the building, for example
- By using predefined settings for lighting, blinds, heating, air conditioning, and ventilation
- Holiday function

ACCESSIBILITY
for young and old alike is often a key consideration for customers.
For example, enabling voice control using fingerprint identification

TRIGGERING SEVERAL ACTIONS SIMULTANEOUSLY
Activating the alarm system when leaving the house can, for example,
also trigger the opening of the garage door

ekey interfaces for connecting the equipment to third-party systems:

ekey home CV LAN RS-485	**ekey home CV WIEG RS-485**	**ekey home CV KNX RS-485**	**ekey KNX CONNECT**
Part no. 100460	Part no. 101582	Part no. 101719	Manufacturer: netyard
The ekey LAN converter for connecting to third-party systems with a UDP protocol.	The ekey Wiegand converter converts the RS-485 protocol used by ekey into a 26-bit Wiegand protocol.	The certified ekey KNX converter converts access information directly into KNX events.	Further information: *www.netyard.de/en/*

As well as various converters (KNX, UDP, Wiegand, netyard), ekey also offers the option of coupling finger scanners with third-party systems directly using a software development kit and managing them using this.

ekey
control panel

ekey
converter
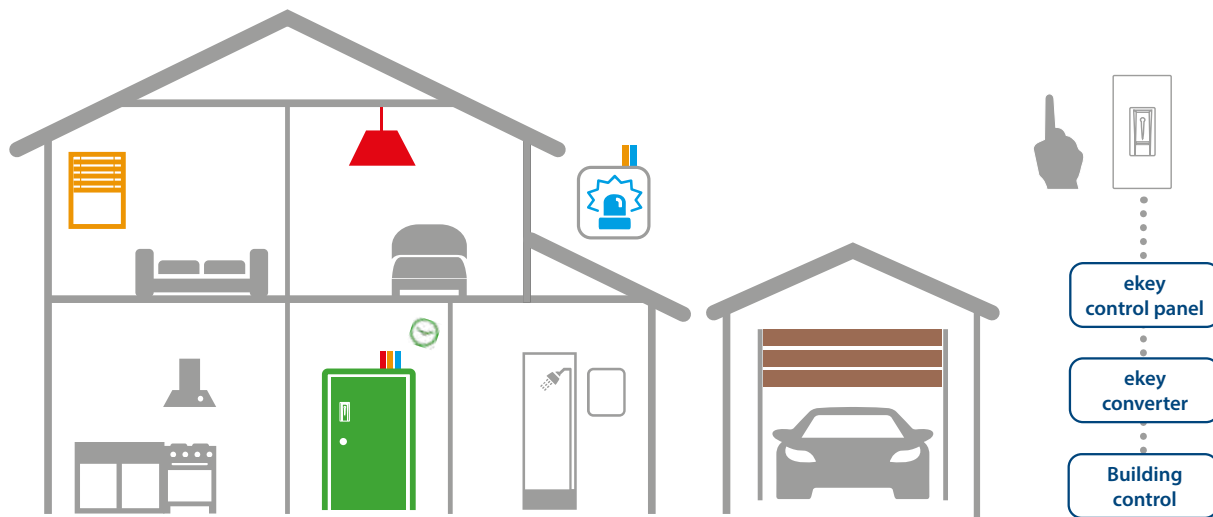
Building
control

There is already a wide selection of different manufacturers making building control systems which are designed to make 21st century life as comfortable and safe as possible for you. By using the ekey fingerprint access control system, building control systems can now detect which person triggers an action. As a result, they can control and organize the building based on a particular person.

By integrating ekey fingerprint access control solutions into building control systems, you get lots of new options:

- **SMART SECURITY**

  Upon arriving home, the user opens the door and simultaneously deactivates the alarm system
  (if there is no one left in the house, the alarm system is activated when the last person leaves).

- **IDEAL CONTROL**

  An authorized finger can trigger a scenario which, for example, controls the shutters and regulates the amount of sunlight.

- **SMART LIGHTING SYSTEM**

  All the lights are switched off as soon as the last person leaves the house. Similarly, all the defined light elements are switched on when the first person enters the house.

- **INTELLIGENT ACCESS CONTROL SYSTEM**

  The user can implement customized access solutions via time slots, such as restricted access for a cleaner (the user is informed about each access).

When it comes to user-defined options, the only limit is the user's imagination.

- For public buildings and companies, there is the option to **log who** has entered the building, as well as the **time and location** at which they entered. This also makes it possible to **use the system for time-recording purposes**.
- What's more, **information about whether an authorized finger** has been swiped over the registration unit is available. If a person is not authorized, this information could be used to switch on the garden lighting and store a photo from the door camera in an archive, for example.
- Using a logic in the building control system, it is possible to **trigger a different command with each finger saved**.

Crestron TSW - 1060

ekey *finger scanner* + Crestron

Integration into Crestron automation systems.

Complete integration offers you considerable advantages:

- Own access control system via Crestron
- Access logging
- Custom user permissions
- Central administration via Crestron touch display
- Programmable time slots
- Up to 100 fingerprints and 100 RFID transponders can be stored

How it works:

1. You need the COMPONENTS from ekey and Crestron.
2. The finger scanners are controlled via the free ekey v1.2 app which is available on the **Crestron application market**.

You can find further information at:
https://applicationmarket.crestron.com/ekey-crestron-fs-for-integration/

CRESTRON
2018 – 2019
North American
Home Technology Awards
Best Integration Utilizing Crestron Partners

CERTIFIED
CRESTRON
Integrated Partner

ekey is an official integration partner of Crestron
https://www.crestron.com/en-US/Partners/Integrated-Partners/ekey-biometric-systems

Supports up to 10 finger scanners

ekey finger scanner for Crestron

Part no.	Description	
For mounting in doors or walls.		
102067	**ekey FS IN E Crestron**	
	RS-485, for Crestron	*FS IN* with connection cable
102068	**ekey FS IN E RFID Crestron**	
	RS-485, for Crestron	*FS IN* with RFID reader
For integration in door stations or switch frames.		
102069	**ekey FS OM I Crestron**	
	RS-485, for Crestron	*FS OM I* for integration without design element
102070	**ekey FS OM I RFID Crestron**	
	RS-485, for Crestron	*FS OM I* for integration without design element, with RFID reader
102071	**ekey FS OM E Crestron**	
	RS-485, for Crestron	*FS OM E* for switch frames
102072	**ekey FS OM E RFID Crestron**	
	RS-485, for Crestron	*FS OM E* with RFID reader, for switch frames
102073	**ekey FS OM I BL Crestron**	
	RS-485, black, for Crestron	*FS OM I* for integration without design element
102074	**ekey FS OM I BL RFID Crestron**	
	RS-485, black, for Crestron	*FS OM I* for integration without design element, with RFID reader
102075	**ekey FS OM E BL Crestron**	
	RS-485, black, for Crestron	*FS OM E* for switch frames
102076	**ekey FS OM E BL RFID Crestron**	
	RS-485, black, for Crestron	*FS OM E* with RFID reader, for switch frames

BECKHOFF
New Automation Technology

ekey finger scanner + Beckhoff

Integration into Beckhoff automation systems

Complete integration offers you considerable advantages:

- Maximum security
- Own access control system via Beckhoff
- Authorization systems for plants, buildings, and machines
- Use of existing Beckhoff infrastructure and switch actuators
- Personalized scene selection
- Convenient visualization and administration via touch displays

How it works:

1. You need the COMPONENTS from ekey and Beckhoff.
2. The finger scanner is controlled via a free Application Note from the *TwinCAT Information System* and the *"Serial Communication" TwinCAT Supplement*.

You can find further information at:
http://goo.gl/ZtsaFj

ekey finger scanner for Beckhoff

Part no.	Description	
For wall mounting and easy retrofitting.		
101556	**ekey FS WM Beckhoff,** steel gray	
	RS-485, 255 users, for Beckhoff	*FS WM*
101683	**ekey FS WM RFID Beckhoff,** steel gray	
	RS-485, 255 users, for Beckhoff	*FS WM* with RFID reader
101699	**ekey FS WM RFID REL Beckhoff,** steel gray	
	RS-485, 255 users, for Beckhoff	*FS WM* with RFID reader and integrated switching relay
For mounting in doors or walls.		
101557	**ekey FS IN E Beckhoff,** stainless steel gray	
	RS-485, 255 users, for Beckhoff	*FS IN* with 24 cm connection cable
101698	**ekey FS IN E RFID Beckhoff,** stainless steel gray	
	RS-485, 255 users, for Beckhoff	*FS IN* with 24 cm connection cable and RFID reader
For integration into door stations.		
101554	**ekey FS OM I Beckhoff**	
	RS-485, 255 users, for Beckhoff	*FS OM I* for integration without design element
101682	**ekey FS OM I RFID Beckhoff***	
	RS-485, 255 users, for Beckhoff	*FS OM I* for integration without design element with RFID reader
For integration into switch frames.		
101555	**ekey FS OM E Beckhoff,** pure white	
	RS-485, 255 users, for Beckhoff	*FS OM E* for switch frames
101681	**ekey FS OM E RFID Beckhoff,** pure white	
	RS-485, 255 users, for Beckhoff	*FS OM E* with RFID reader, for switch frames
101598	**ekey FS OM E REL Beckhoff,** pure white	
	RS-485, 255 users, for Beckhoff	*FS OM E* with integrated switching relay, for switch frames

Beckhoff components

Beckhoff Automation GmbH & Co. KG

Part no.	Description	
KL6041	**Serial interface for K bus**	
	RS-485	Up to 8 finger scanners per terminal
EL6021	**Serial interface for E bus**	
	RS-485, 115.2 kBaud	Up to 8 finger scanners per terminal

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.

Type	Recommended mounting height
WM (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.

Recommended finger surface
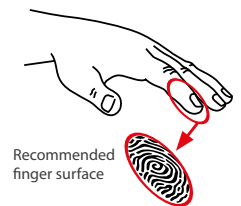
● Finger scan

From experience, the best fingers to use are as follows: **1. middle finger, 2. index finger, 3. ring finger**. The thumb and the little finger should not 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.
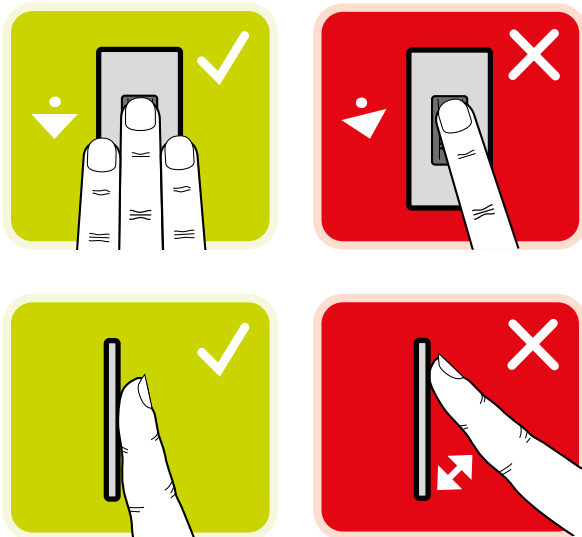
● Storing a finger

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.
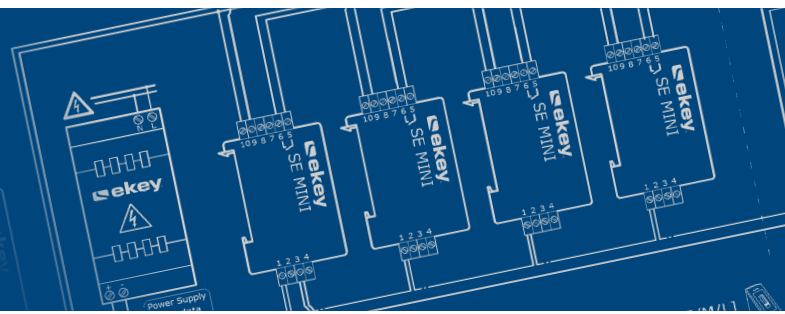
Support

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

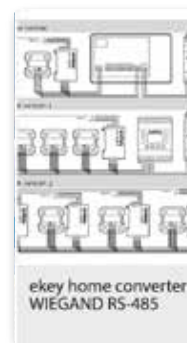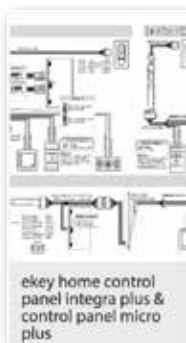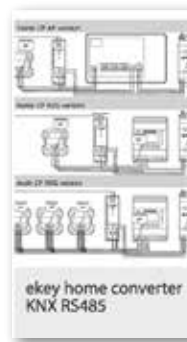|	
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Technical specifications and wiring diagrams

ekey downloads

Wiring diagrams
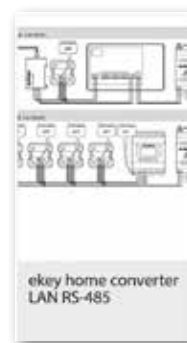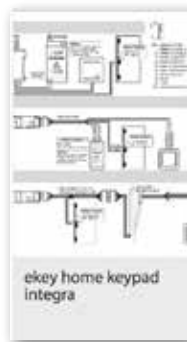
ekey home control panel DRM & ekey multi control panel DRM

ekey home control panel wall-mounted

ekey home keypad integra

ekey home converter KNX RS485

ekey home control panel integra plus & control panel micro plus

ekey home control panel mini

ekey home control panel integra & control panel micro

ekey home converter WIEGAND RS-485

ekey home converter LAN RS-485

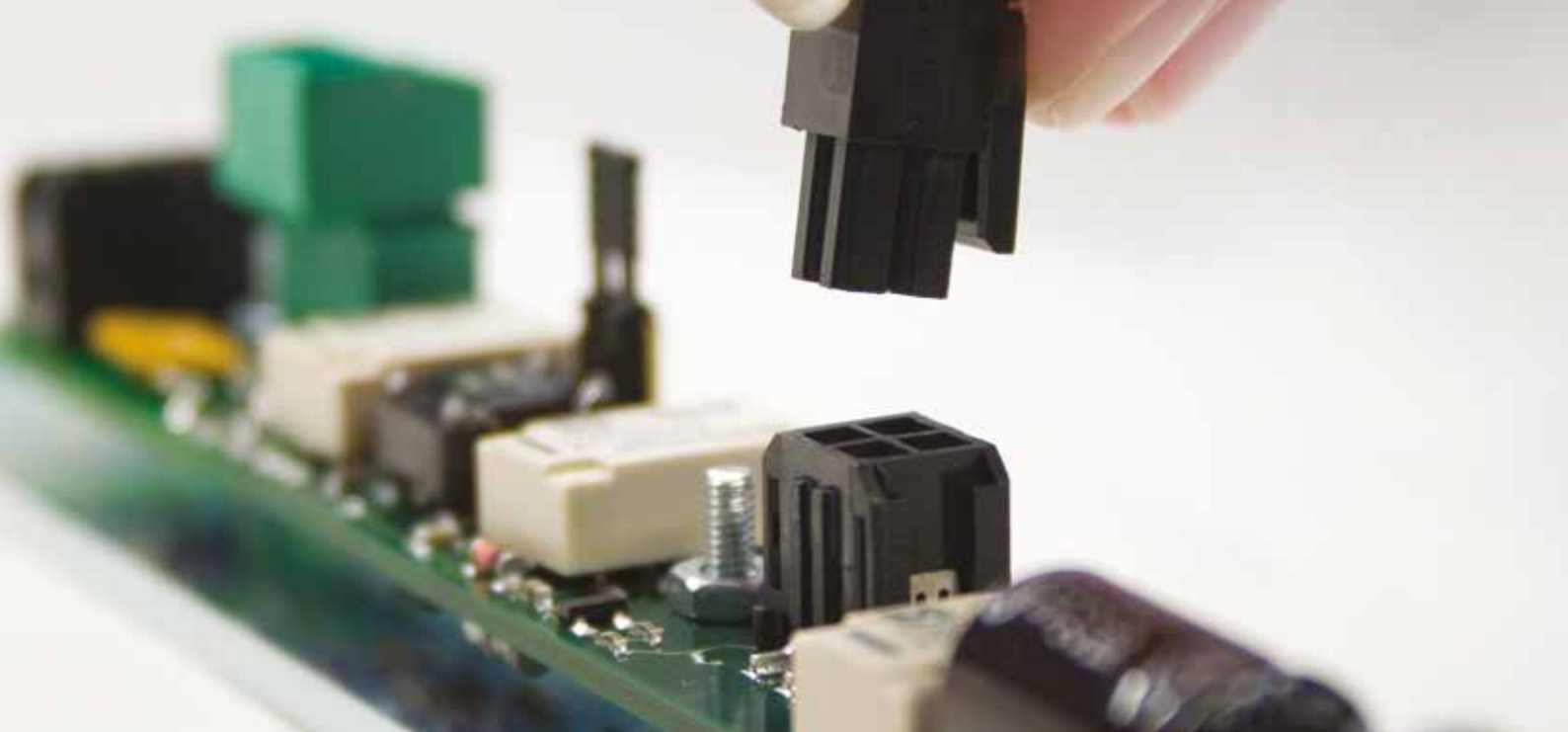**ekey MEDIA CENTER**
You can find all the information on our products on our website:
www.ekey.net/en/pro-mediacenter

Service tools

Part no.	Description
101255	**ekey home/multi servicekit**

For software updates of • *ekey home FS WM/OM/IN* finger scanners • *ekey home CP IN/WM/DRM/mini* and *ekey multi CP DRM* control panels (not *ekey net*)	• Scope of delivery: USB converter, software, USB cable, power supply, matching cable sets

Part no.	Description
101680	**ekey dismounting suction cup**

• For removing ekey design elements

ekey compatibility list

Models	Converters	ekey home CP WM		ekey home CP DRM		ekey home CP mini*		ekey multi CP DRM 4
		1	3	1	2	1	2	4
ekey home FS WM		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✓	✓	✓	✓	✓	✓	✓
ekey home FS WM RFID		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✓	✓	✓	✓	✓	✓	✓
ekey home FS OM E/OM I		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✓	✓	✓	✓	✓	✓	✓
ekey home FS OM E/OM I RFID		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✓	✓	✓	✓	✓	✓	✓
ekey home FS IN		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✓	✓	✓	✓	✓	✓	✓
ekey home FS IN RFID**		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✓	✓	✓	✓	✓	✓	✓
ekey home FS IN Bluetooth		✓	✓	✓	✓	✓	✓	✗
	LAN	✓	✓	✓	✓	✗	✗	✗
	WIEG	✓	✓	✓	✓	✗	✗	✗
	KNX	✓	✓	✓	✓	✓	✓	✗
ekey home FS IN Bluetooth RFID**		✓	✓	✓	✓	✓	✓	✗
	LAN	✓	✓	✓	✓	✗	✗	✗
	WIEG	✓	✓	✓	✓	✗	✗	✗
	KNX	✓	✓	✓	✓	✓	✓	✗
ekey home KP IN		✓	✓	✓	✓	✓	✓	✓
	LAN	✓	✓	✓	✓	✗	✗	✓
	WIEG	✓	✓	✓	✓	✗	✗	✓
	KNX	✗	✗	✗	✗	✗	✗	✓

*Only ekey event 1 can be triggered

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

Notes

![ekey YOUR FINGER. YOUR KEY.]

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