

# AirKey

Simply smart



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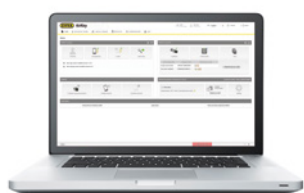
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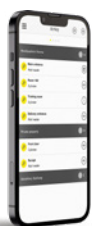
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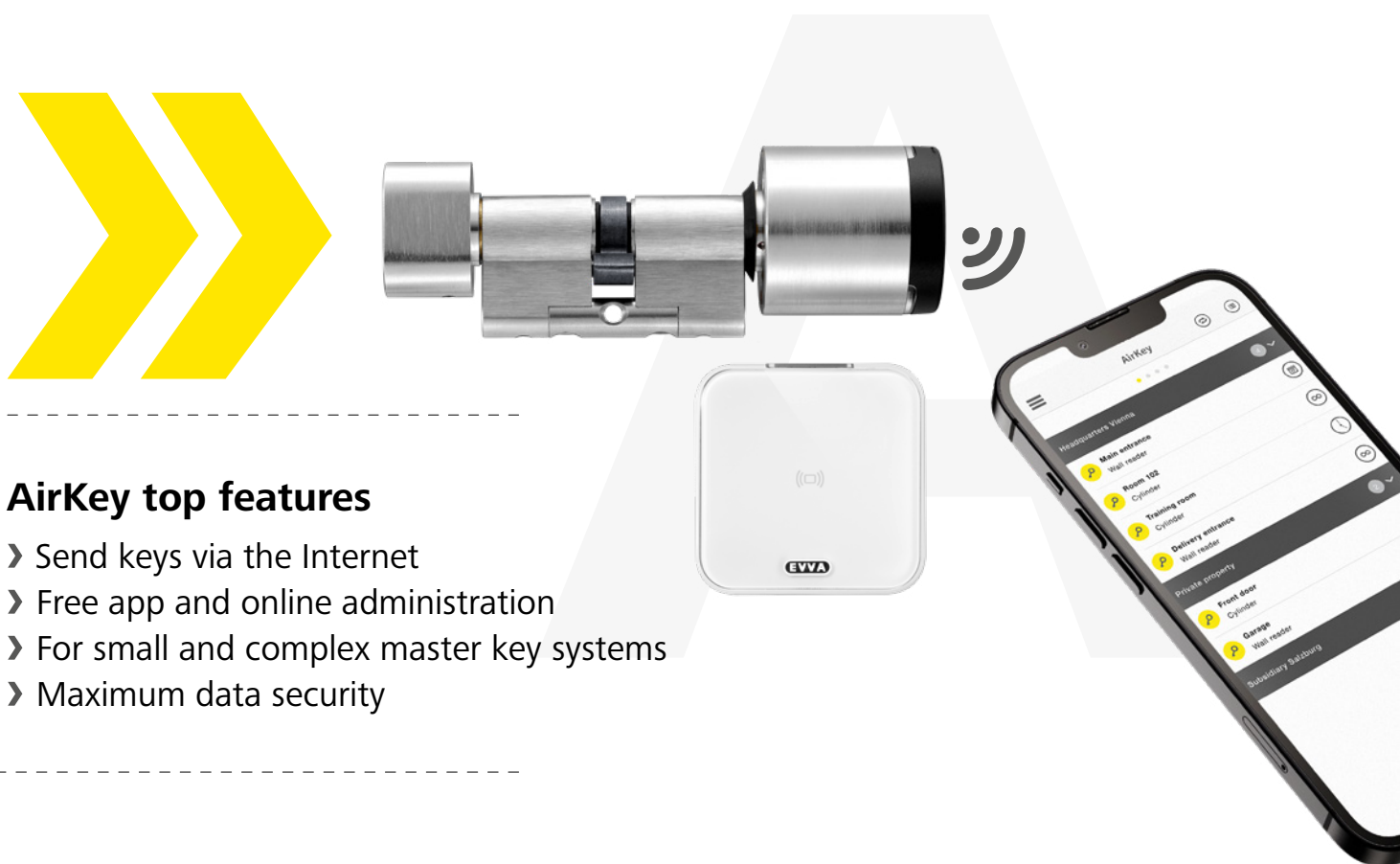
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# AirKey. Simply smart

With AirKey the smartphone is the key. This increases your levels of security, flexibility and gives you complete control over your doors. What is required? An AirKey cylinder, a smartphone as well as internet access and you will be able to send your keys via the internet and manage your access control system online. Well, isn't that smart!

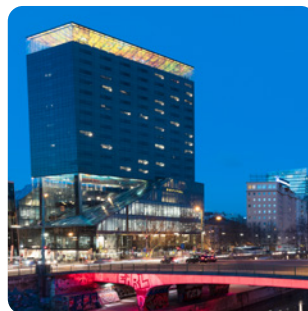


## AirKey top features

- › Send keys via the Internet
- › Free app and online administration
- › For small and complex master key systems
- › Maximum data security

## The electronic locking system is a story of worldwide success

Thanks to AirKey key, handovers and complex key management are a thing of the past. For this reason, many co-working space operators and infrastructure facilities as well as mobile service providers rely on AirKey and benefit from increased security and flexibility.



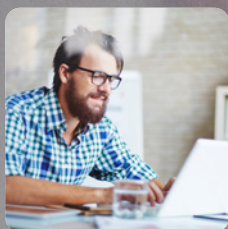
weXelerate | AT



NEW | DE

# AirKey app and online administration

## Many smart features



### Send a Key

Simply send the key including a personal text message (max. 150 characters) via a push message.



### Geotagging

Smartphones know where locking system components are located and guide the way using the navigation app.



### Office mode

Fully or semi-automatic office mode at certain doors and at certain times. Automatically takes into account public holidays as well as summer and winter time.



### Component sharing

Leave the management of locking system components to tenants, e.g. in shared offices.



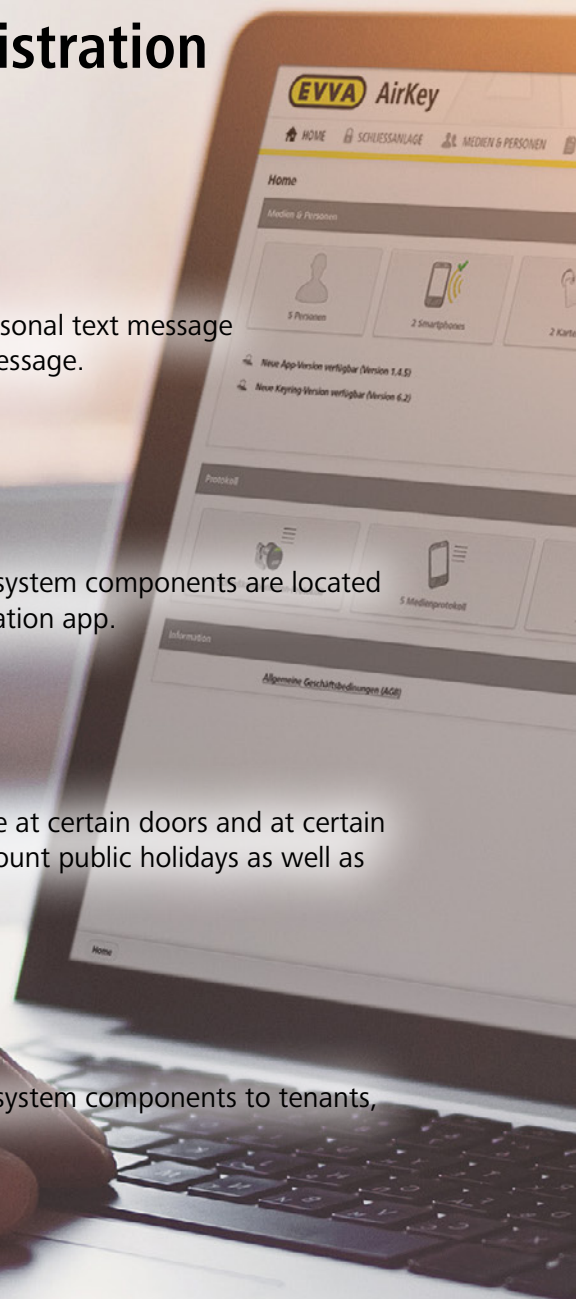
### Multi-administration

Multiple admins and sub-admins with restricted rights can separately manage company locations.



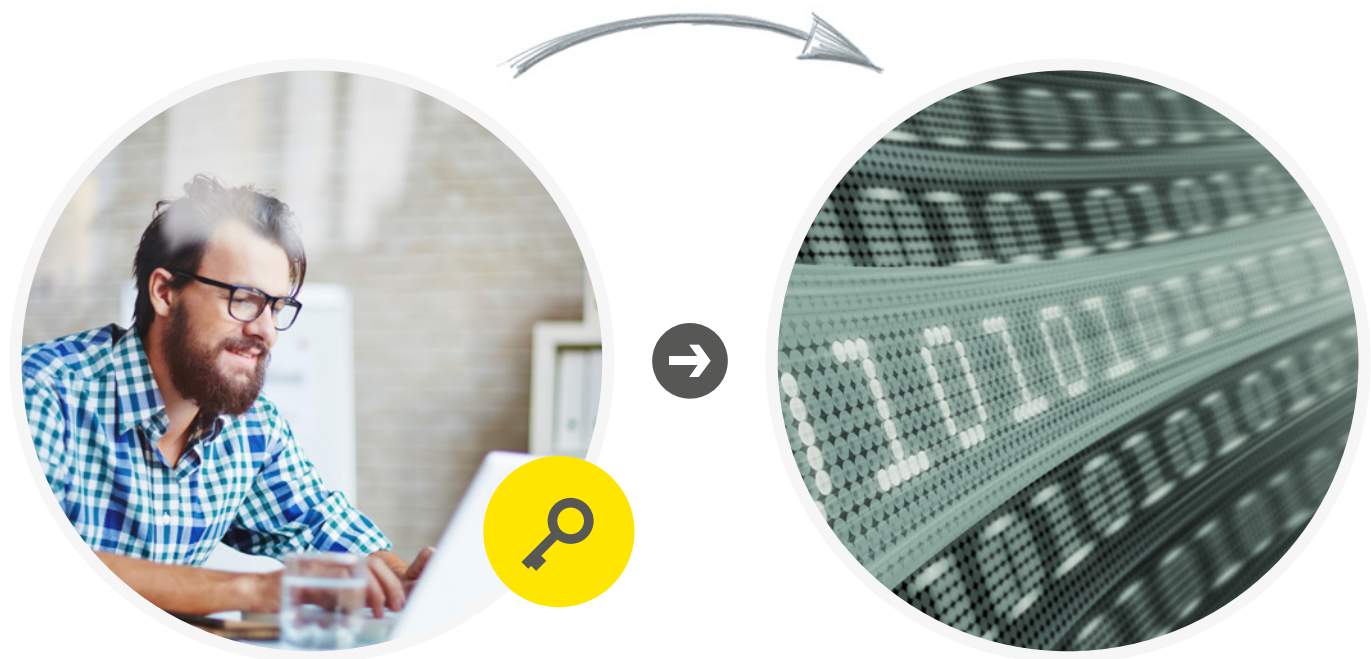
### AirKey Cloud Interface

The AirKey Cloud Interface (API) allows you to control particular AirKey functions with your own software.



## Just as dynamic as customers' needs

AirKey is the electronic locking system for a new, mobile generation and a response to the dynamics of modern working worlds as well as our private lives. Flexibly send keys to smartphones via the Internet and benefit from maximum security standards and many smart software features.



### George sends keys using the online administration

George manages an advertising agency. His team consists of a pool of different freelancers. Thanks to AirKey he saves himself from having to deal with tedious key management.

### Encrypted and secure as per online banking standards

With AirKey the authorisations are always saved in encrypted format in the online administration. The access is secured by two-factor authentication and smsTan.



## KeyCredits - time credit or quantity credit

The online administration and the app are free of charge, only the issued keys are charged. This provides cost transparency for the user.

### KeyCredits 10, 50, 100 or KeyCredit Unlimited

One KeyCredit is required to create and change access authorisations. Unlocking doors and deleting access authorisations is free of charge. Choose from quantity credit - 10, 50 or 100 KeyCredits or time credit - KeyCredit Unlimited for one or three years.





Send a Key (iOS)  
<https://youtu.be/2lJOMMhiyRY>



Send a Key (Android)  
<https://youtu.be/T4vkMaS-SjE>



### Sophie receives the key on her smartphone

Sophie is George's new freelancer. She has just arrived and receives the key to the agency in a push notification. She received the prompt to install the AirKey app by SMS text message.

### Sophie easily finds George's agency and unlocks the door with her smartphone.

Thanks to cylinder's GPS tagging, Sophie had no trouble finding George's agency. The cylinder now identifies her smartphone as a key and authorises her to open the door.

## AirKey meets EU Data Protection Directive

AirKey was developed as the most data-protection-friendly access system together with the certified data protection expert Dr Christof Tschohl. Please do not hesitate to contact us if you have any questions about details.

### Increased data protection thanks to the dual control principle

Event logs can only be viewed if a second admin grants the requester access with a TAN.



## EVVA | A tradition with a future

Founded in Vienna in 1919, the EVVA Group is now represented by the headquarters in Vienna, 10 subsidiaries in Europe and distributors worldwide. EVVA employs around 750 people throughout Europe.

Three engineers joined forces in 1919 to form the "Erfindungs-Versuchs-Verwertungs-Anstalt" (Invention, Experimentation and Application Institute), or EVVA for short. In 1937, EVVA received the first patent for a cylinder padlock, helping the company to strike out on the path of security technology. Nikolaus Bujas took over the company in 1973, invested in machinery and expanded the in-house research and development department.

### Research, development + expansion

At the end of the 1970s, Sven Berlage pushed forward the expansion of the branches, as well as export and international positioning of the company. Since 1999, Stefan Ehrlich-Adám has been the third generation at the head of the

family-run company. He is setting the course for a successful future for EVVA. Alongside tradition, research and development are key focus areas. Innovation and development are important elements to help EVVA grow into a major, international player. EVVA is already a leading manufacturer of access solutions in Europe.

### Perfect mechanical solutions + innovative electronic solutions

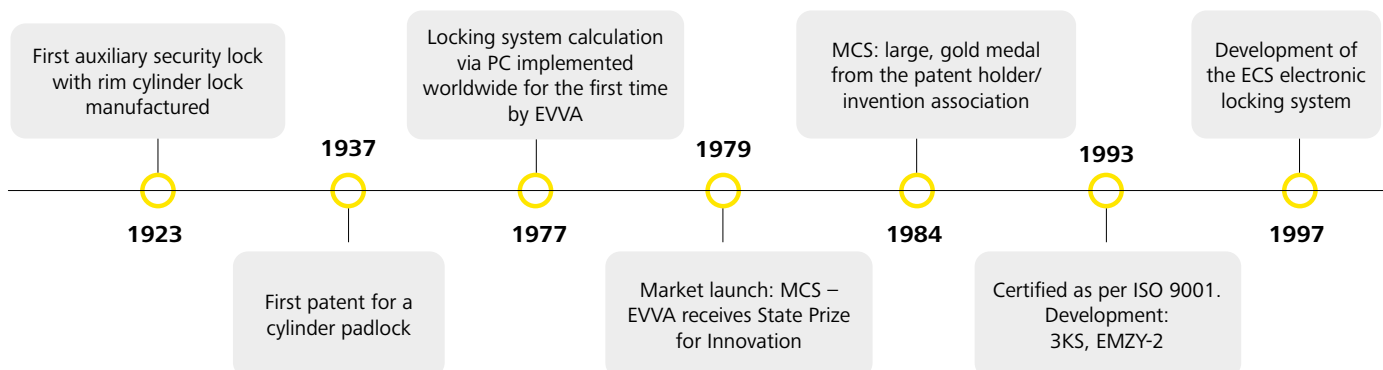
EVVA as a company with a tradition is amongst the top suppliers of mechanical locking systems.

In 2014 EVVA launched Xesar and AirKey, the two innovative electronic locking systems which are a result of our long lasting professional experience.

### Facts + figures

- Headquarters in Vienna + ten branches
- 750 employees throughout Europe
- EVVA supplies in over 50 countries all over the world
- TRIGOS Award 2012
- 2011 City of Vienna environmental award
- CONSECUTIVE, ANNUAL OKOPROFIT awards since 1999
- Certified as per ISO 9001

### Overview of innovations



EVVA –  
*innovation  
since 1919*

EVVA continues to invest in its workforce



## Corporate social responsibility (CSR)

For EVVA, CSR is more than just image, it is a necessity. Particularly for top technology companies, it is essential to work as sustainably as possible. Protecting environmental resources, investing in employees and paving the way for economic success.

Photovoltaic energy generation at EVVA



## Clean production

EVVA is increasing its focus on an oil- and water-free production of products. This type of production, known as clean production, offers a wide range of advantages. EVVA has received numerous prizes for sustainable innovations. Examples include the Leonardo Award 2004, the Environmental prize 2011 from the City of Vienna, the TRI-GOS Award 2012, as well as the annual "Ökoprofit-Auszeichnung" (Ecological Project for Integrated Environmental Technology Award) every year since 1999.

2006

Development of new mechanical locking systems (EPS, 3KSplus)

ICS market launch

2009

Launch of the innovative, electronic Xesar and AirKey locking systems

2014

4KS market launch

2016

Launch of bluetooth-function with AirKey

2018

Xesar software release 3.0

2019

New patent for EPS and FPS

2021

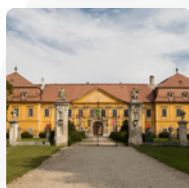
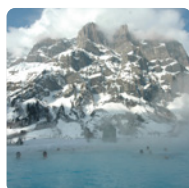
## AirKey | Solutions



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### Small businesses + shared office

Sole traders, shared offices, law firms,  
doctor's offices, pharmacies, restaurants,  
small commercial businesses



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**12**

### Businesses with various sites

Supermarkets, petrol stations, pharmaceutical retailers,  
DIY retailers, retail and restaurant chains



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## Service providers

Community nurses, maintenance and service providers, security services, delivery services, telecommunications service providers



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**16**

## Residential buildings

Holiday homes, student residences, healthcare facilities and private accommodation

## AirKey | Small businesses + shared office



SeleevesUp | DE

weXelerate | AT  
Funkensprung | AT

### Best practice

Property	SleevesUp!
Building type	Shared offices
Location	Multiple sites in Germany, 2020
Units	200+ AirKey components

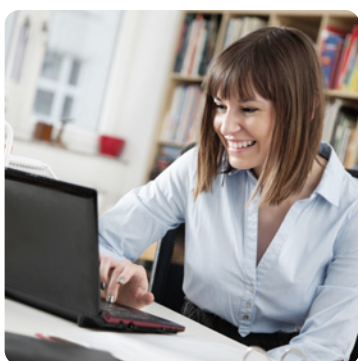
#### Special features of the project:

In several German cities, SleevesUp! offers serviced offices, co-working spaces and meeting rooms with complete office infrastructure at fair prices. "We are the ideal AirKey customer", says SleevesUp! Managing Director Sebastian Fuss. "We have heavily fluctuating accesses and needed a GDPR-compliant and, at the same time, robust access system in terms of design and use. After screening several suppliers, we decided on AirKey after a consultation."

## Flexible security

Today's working world demands a locking system that is as flexible as the continuously changing work processes. However, it must simultaneously safeguard maximum security – just like in traditional, corporate structures.

AirKey is exactly this type of locking system that offers maximum flexibility and maximum security. Manage access authorisations using a simple, web-based user interface. EVVA centrally backs up the online administration in the background.



### Simply secure

Access authorisations are simply granted in the online administration. There is no need for an own IT infrastructure. This saves resources.

**AirKey online administration**  
 » Page 34



### Easy onboarding

The AirKey Cloud Interface enables you to send a key from your administration software directly to a new employee's smartphone.

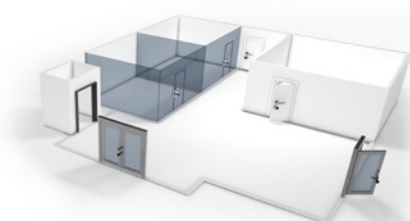
**AirKey Cloud Interface**  
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### Shared security

The community kitchen is often a central area in shared offices. As a result, you can manage individual cylinders together and let social networking take its course.

**Component sharing**  
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### Your sample system » Page 28

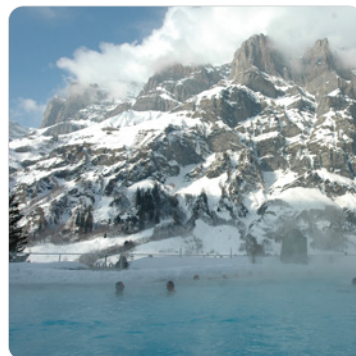
Sole traders, shared offices, law firms, GP surgeries, pharmacies, restaurants, small commercial businesses

## AirKey | Businesses with various sites



Mc ArthurGlenn | AT

Leukerbad | Switzerland  
Marchegg township | Austria



### Best practice

Property	McArthurGlenn Designer Outlet Parndorf
Building type	Business with various sites
Location and year	Parndorf, 2021
Units	AirKey: 600, 4KS: 350

#### Special features of the project:

With decorated shop windows, fashionistas strolling around, a hip culinary scene and plenty of fun for the little ones, the Parndorf Designer Outlet offers a shopping experience for the whole family. Behind the scenes, however, two issues dominate the work of management: security, specifically data protection standards and access authorisations. Centre manager Mario Schwann points out that, "With 160 brand partners, processing access authorisations plays a crucial role. Secure, flexible, easy to maintain and compliant with data protection requirements: that is what we wanted and we were able to achieve it with the help of EVVA."

## Dynamic security

A branch network is subject to dynamic laws. Systems must allow you to grant access authorisations to different persons at different times. This results in enormous organisational challenges and requires an access system that offers great flexibility and maintains maximum security.

This is what AirKey represents: an agile, extremely flexible locking system that applies web-based software and can be configured from anywhere in the world via the internet. As a consequence, branch managers or the head office can quickly and unbureaucratically grant or revoke (limited validity) access authorisations using a simple user interface.



### Flexible security

Adapted for users of multiple sites! With the AirKey Cloud Interface, you can send keys from your administration software directly to your service technician's smartphone for the required period of use.

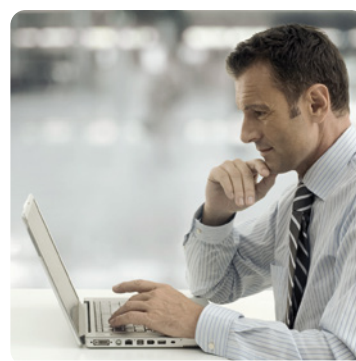
**AirKey Cloud Interface**  
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### Transparent security

Through an automatic update after locking processes with smartphones, not only blacklist entries are updated, but also event logs from passive identification media are transferred to the online administration.

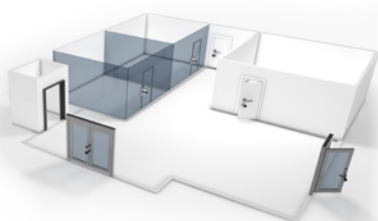
**AirKey layout**  
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### At a glance

Head office can view access protocols at any time. This facilitates plans for the future, yet does not impede the branches' right to manage their own processes.

**Multi-administration**  
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### Your sample system » Page 28

Supermarkets, petrol stations, pharmaceutical retailers, DIY retailers, retail and restaurant chains

# AirKey | Service providers



Vienna Giant Ferris Wheel | Austria

Vienna cemeteries | Austria  
Trinicum | Austria



## Best practice

Property	Vienna Giant Ferris Wheel
Building type	Tourist attraction
Location and year	Vienna, 2020
Units	42 AirKey components

### Special features of the project:

When Nora Lamac, co-owner of the Vienna Giant Ferris Wheel, took over the heritage structure from the previous owner, she soon realised that the keys were not only old, but also missing in some cases. "I therefore decided to ask EVVA for a complete solution. At first, I considered classic mechanical keys," the young entrepreneur recounts. When I spoke with EVVA, however, we also discussed the modern AirKey solution, which enables access via smartphone. "Access is so easy and works perfectly – even my mother manages with it very well."

## Mobile security

You require reliability and flexibility whenever a high degree of mobility is involved or it is paramount to absolutely safeguard the care of vulnerable persons and the security of possessions. Circumstances can change quickly. However, you must guarantee access in all cases.

The AirKey locking system is just the right, flexible solution if your situation changes at short notice. You can centrally grant access authorisations at short notice, for instance to community nurses, security or maintenance services. If required, you can even restrict the access times. As a result, persons and property are reliably looked after and protected.



### Working in the AirKey era

Handing out keys, collecting them and making copies when they go missing is costly and inconvenient. AirKey was designed to save money and time. When you create the roster for your nurses and carers, you can automatically send the keys to their smartphones, thanks to the AirKey Cloud Interface.

**AirKey Cloud Interface**  
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### Easy key management

With AirKey you can react flexibly and quickly to personnel and structural changes. Send keys to smartphones via push notifications using the AirKey online administration. Customised text message included.

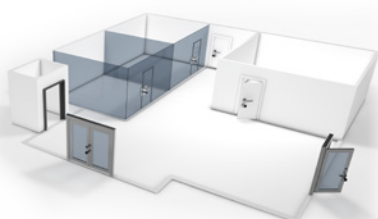
**Send a Key**  
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### Transparent security

Through automatic updates after locking with smartphones, blacklist entries are updated and event logs for passive identification media are also sent to the online administration.

**AirKey layout**  
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### Your sample system » Page 28

Community nurses, maintenance and service providers, security services, delivery services, telecommunications service providers

## AirKey | Residential buildings



POMaseiuno | IT

Lauried | CH  
Liberty Home | AT

### Best practice

Property	POMaseiuno
Building type	Residential complex
Location and year	Milan, 2019
Units	55 AirKey components

#### Special features of the project:

The AirKey system's potential has been fully exploited here: access control for lifts with direct access to the apartments. AirKey allows POMaseiuno's general accesses and private accesses of apartment owners to be managed simultaneously. This solution is possible thanks to the maintenance of two completely separate databases. This guarantees excellent security levels! The AirKey access control system was also used for all of POMaseiuno's common areas, such as the gym, meeting room, bicycle storage area, etc.

## Cost-saving security

Apart from the fact that you, as a residential property developer or manager of a residential building complex, will become more attractive for your tenants and buyers with such a modern electronic access control system as AirKey, AirKey also reduces your internal administration efforts and helps you save costs. With Send a Key, holiday apartment owners can send their guests access authorisations directly to their smartphones and also specify when the authorisation will end in accordance with the agreed rental period.



### Self-management

As a property manager, you can provide AirKey components for self-management to tenants or owners, whilst at the same time maintaining full control of the AirKey system.

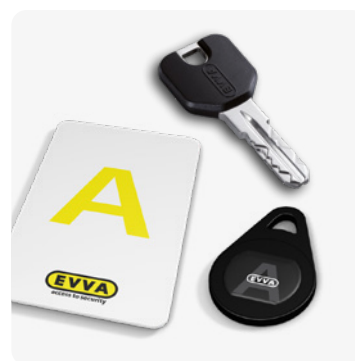
**Component sharing**  
 » Page 26



### Simple management

As a property manager, you've got your hands full. Thankfully, you have AirKey to make your life easier. With AirKey, you send the keys from your administration software directly to the tenants' smartphones.

**AirKey Cloud Interface**  
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### Tag it

For people, such as children, who do not yet own a smartphone, we provide alternative highly secure opening methods such as cards, key tags, bracelets and combi keys.

**Identification media**  
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### Your sample system » Page 28

Holiday homes, student residences, healthcare facilities and private accommodation

## AirKey | The core team

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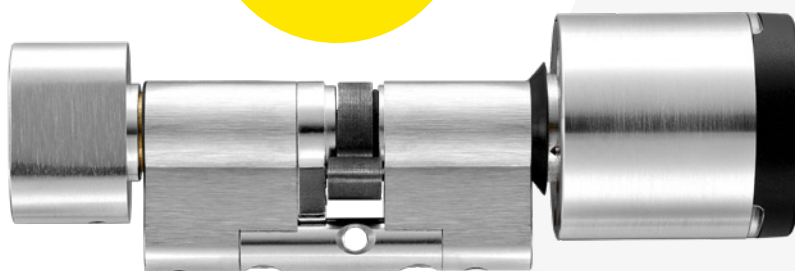
AirKey  
padlock



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AirKey cylinder



The highly secure solution for  
particularly simple assembly

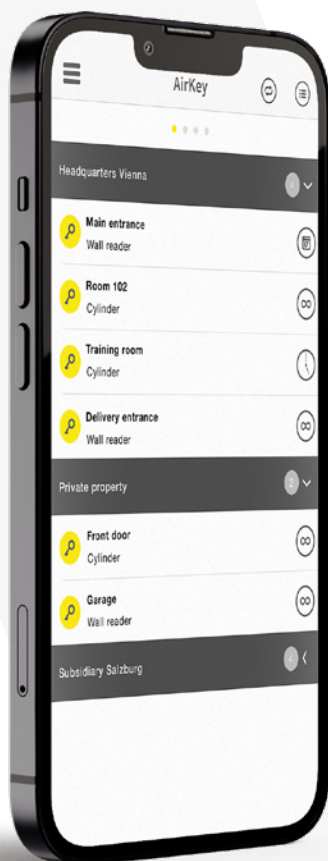
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AirKey wall reader



The switching specialist with a glass design >>  
for indoor and outdoor application



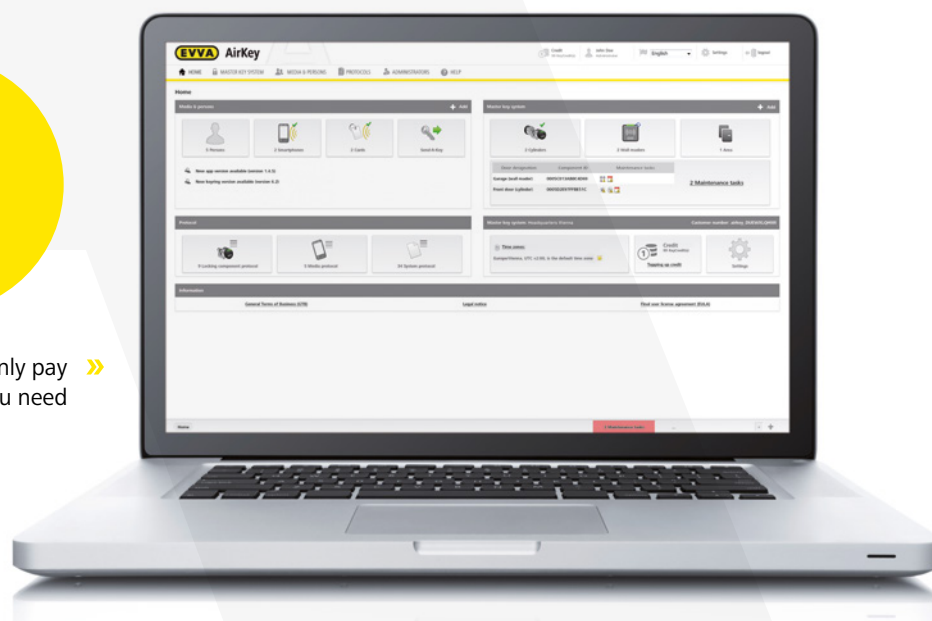
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App + phone

« The mobile key –  
the smartphone with AirKey app



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Software  
KeyCredits

The innovation - only pay »  
for what you need



## System overview | Unrestricted liberty

### This is how easy it is

AirKey is an effective and highly innovative electronic locking system. Here, the internet and existing mobile phone networks are used to send access authorisations across any distance.

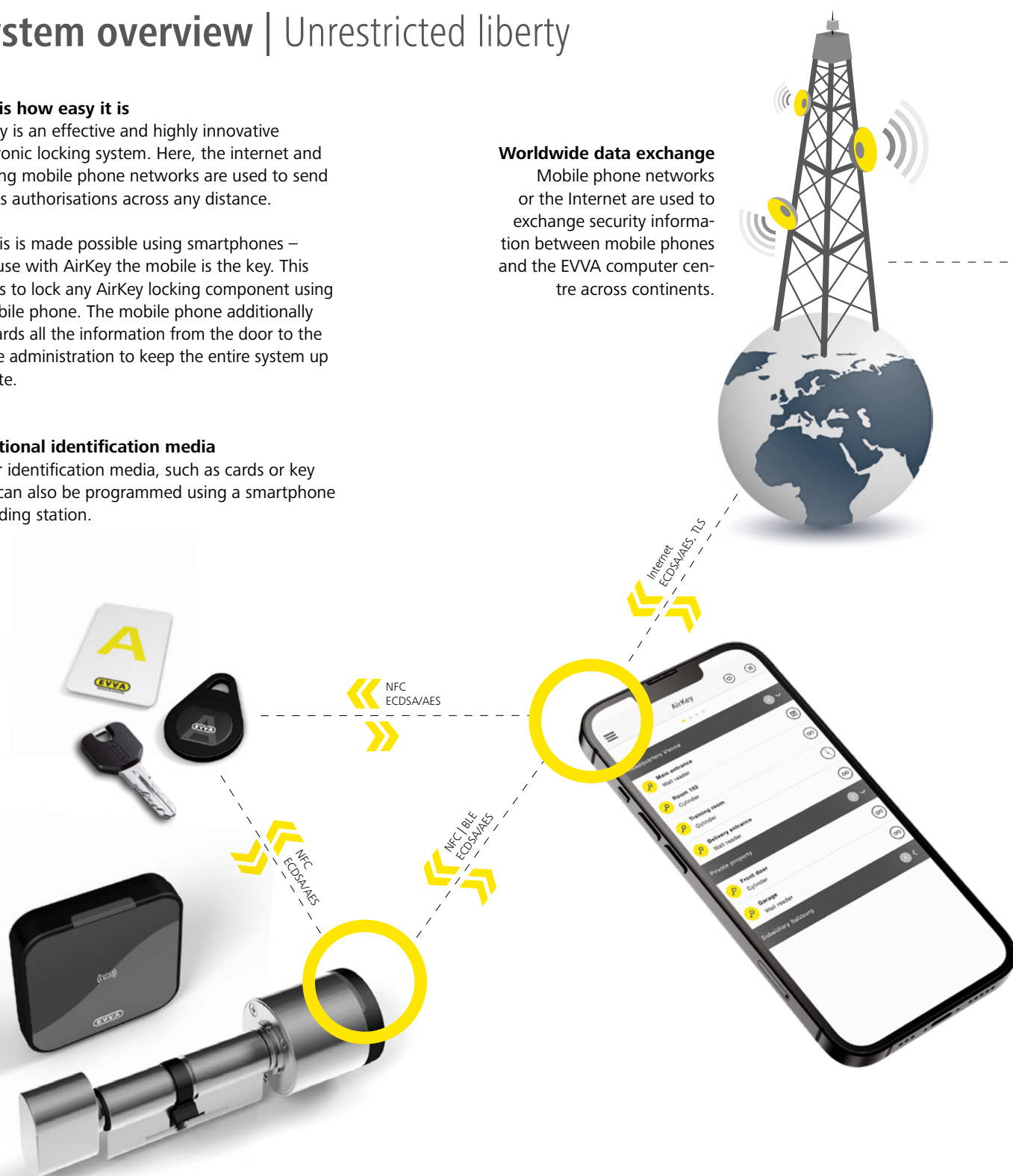
All this is made possible using smartphones – because with AirKey the mobile is the key. This allows to lock any AirKey locking component using a mobile phone. The mobile phone additionally forwards all the information from the door to the online administration to keep the entire system up to date.

### Additional identification media

Other identification media, such as cards or key tags can also be programmed using a smartphone or coding station.

### Worldwide data exchange

Mobile phone networks or the Internet are used to exchange security information between mobile phones and the EVVA computer centre across continents.



### AirKey cylinder + AirKey wall reader

The cylinders and the wall reader are security products with superior design, suitable for indoor and outdoor application that can be unlocked with an authorised smartphone or identification medium. They save up to 1,000 events and are able to transfer this information to the online administration via the smartphone.

### iPhone or Android smartphones

Use the installed AirKey app to receive access authorisations and turn your smartphone into an electronic key. During the locking process, the AirKey cylinder status data is temporarily saved in the app and transferred to the online administration upon the next contact.

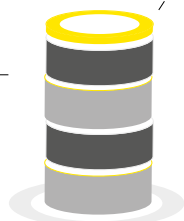


### AirKey Cloud Interface

The interface connects your software to the AirKey online administration. It allows you to control particular AirKey functions with your own software. The communication between AirKey and your software is secured with an API key, system event logs and IP whitelisting.



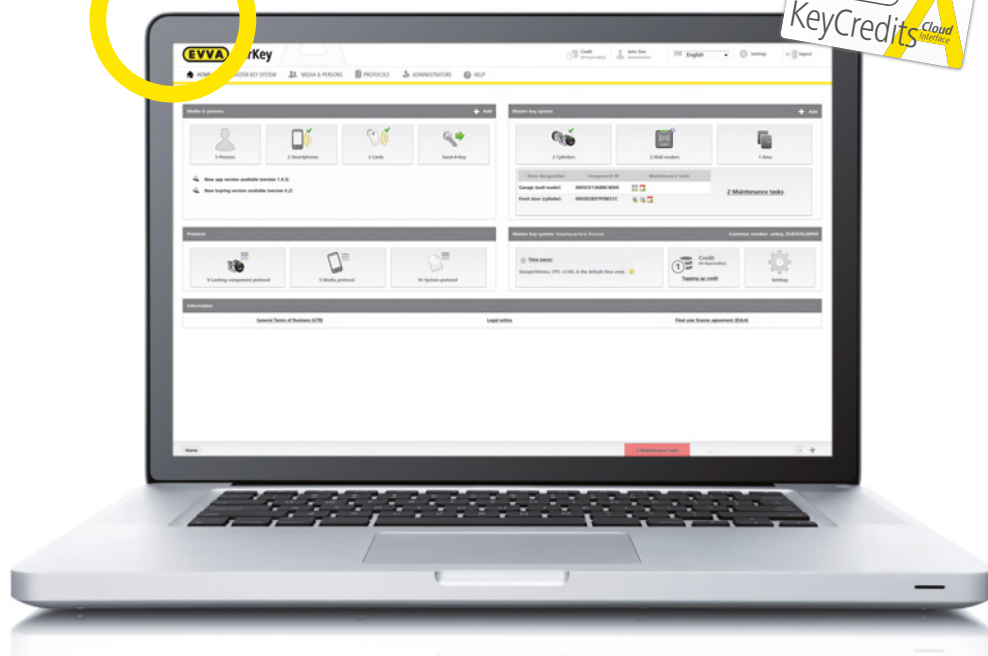
access to security



Internet  
ESDSA/AES, TLS

### As secure as online banking

End-to-end and SSL-encrypted data transfer. Your data is protected in an ISO-27001-certified data centre as per the particularly strict Austrian data protection standards.



### AirKey online administration

It allows you to grant access authorisations to unlock AirKey locking components and many more features. All you need is a computer or notebook with an installed browser, an internet connection and KeyCredits.

# System overview | As secure as online banking

## Privacy by design

AirKey provides solutions to technically safeguard compliance with data protection guidelines. The technically sophisticated design applies cutting edge security mechanisms and ensures seamless security at all stations in the background.

Here are the most important security characteristics:



### Secure smartphone

Installed encryption methods on modern smartphones are an effective security mechanism.



The AirKey app can also be secured with an individual PIN code.



If you lose your phone, the online administration allows to immediately delete access authorisations using an internet browser.



### Secure AirKey identification media

AirKey exclusively uses highly secure (EAL5+ /6+ certified) NFC smart cards, just like those used in passports.



### Security at AirKey components

Thanks to the use of EAL5+ /6+ certified secure elements – highly secure memory elements which are actively encrypted and decrypted - AirKey sets new security standards for electronic access control systems with its Airkey components.



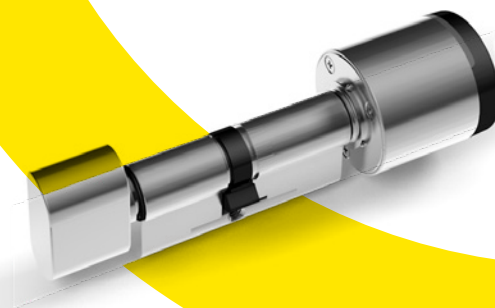
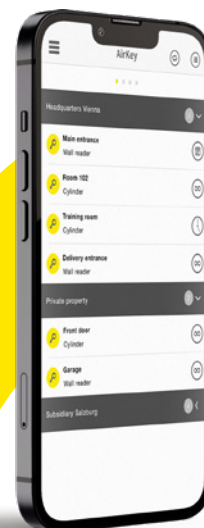
Access authorisations on compromised mobile phones or identification media that are in circulation can be deactivated by updating the blacklist.



An event log for the last 1,000 access events ensures seamless transparency.



AirKey cylinders are equipped with drilling protection, plug pulling protection, rotary damper and rated break point on the outside thumbturn in order to also withstand mechanical attacks.





### Secure data transport

All transferred data is secured as end-to-end data, as per the cutting edge encryption standards.

As a result, it offers decryption protection from EVVA servers to the AirKey locking component.



### Highly secure data storage

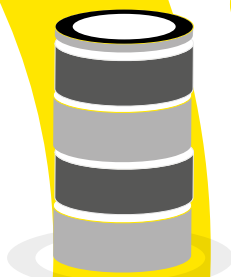
All data is optimally protected in the ISO-27001-certified data centre, meeting strict Austrian security standards.



All data is saved pursuant to the GDPR and backed up several times at the facilities.



As a result of central management at EVVA, digital keys can be backed up much better than with individual protective measures.



### Secure AirKey Cloud Interface

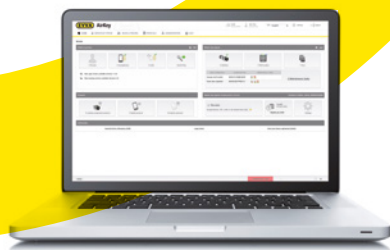
The communication between AirKey and the customer software is secured by HTTPS, TLS. Authentication is performed using the API key.



Every event in the AirKey Cloud Interface is saved in the access control system's tamper-proof event log.



IP whitelist! Enter only the IP addresses to which the AirKey Cloud Interface can send commands.



### Worldwide, secure access

Wherever you may be, the data exchange between your internet browser and EVVA servers is implemented using a secure, protected https connection, a technology also used in online banking.



Highly secure ECDSA and AES encryption methods additionally protect the AirKey system and its components.

## System overview | AirKey Cloud Interface

With the AirKey Cloud Interface the management of your AirKey system becomes even easier and more efficient.

The AirKey Cloud Interface (API) connects your software to the AirKey online administration. It allows you to integrate particular AirKey functions and control them with your own software.

### Setting up the interface

Your software needs to be adjusted to allow the AirKey online administration to communicate with your software. This could be done by your software integrator or programmer.

### Activate the interface using KeyCredits

In order to activate the interface, you are required to make a single payment of 350 KeyCredits. Do this by using the KeyCredits balance or the KeyCredits AirKey Cloud Interface Card.

### KeyCredits

» Page 40



#### API key

With an API key, the communication between AirKey and your software is secured. For security reasons, the API key is fully displayed only once. 10 API keys can be used for each access control system. That means you can securely connect up to 10 in-house software systems directly to the AirKey online administration.



#### IP whitelist

Use the IP whitelist! Enter only the IP addresses to which the AirKey Cloud Interface can send commands.



#### Event log

Every event in the AirKey Cloud Interface is saved in the AirKey system's tamper-proof event log.



#### Facility management

With AirKey, you send the keys from your administration software directly to the tenants' smartphones. At the end of the lease, access is automatically withdrawn.



#### HR management

HR departments can send keys from your administration software directly to employees' smartphones on their first day.



#### Manage AirKey in your own software

With the AirKey online administration, you can grant access authorisation, send keys to smartphones and see who was where and when. The AirKey Cloud Interface allows you to control particular online administration functions with your own software.



#### Property management

In a community many properties have to be managed, which requires a flexible, high-security access control system. Persons in charge can now manage multiple sites directly from their own administration software.



#### Manage memberships

Give your customers access to your gym when they pay their membership fees and revoke their access at the end of the membership period.



#### Manage bookings

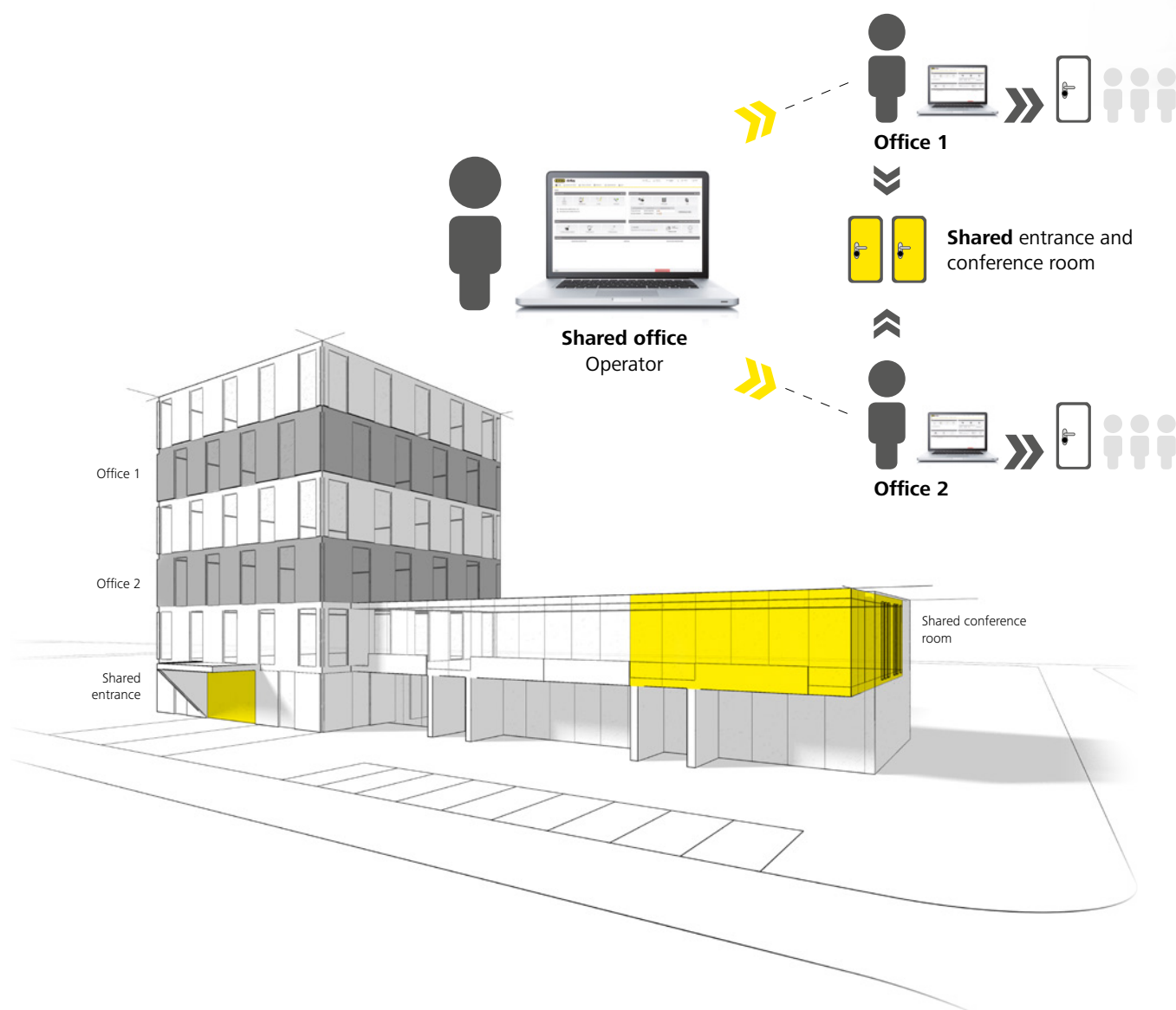
As an owner of holiday apartments or a small hotel, you can simply send the keys directly from your booking system to the guest's smartphone.






Information about the AirKey Cloud Interface can be found in our API documents.  
<https://integration.airkey.evva.com/docs>

## System overview | Component sharing

AirKey is the first system to offer property owners or property management companies the option to outsource the management of

parts of their locking system to business or residential tenants. This type of locking system sharing brings numerous benefits for everyone involved.

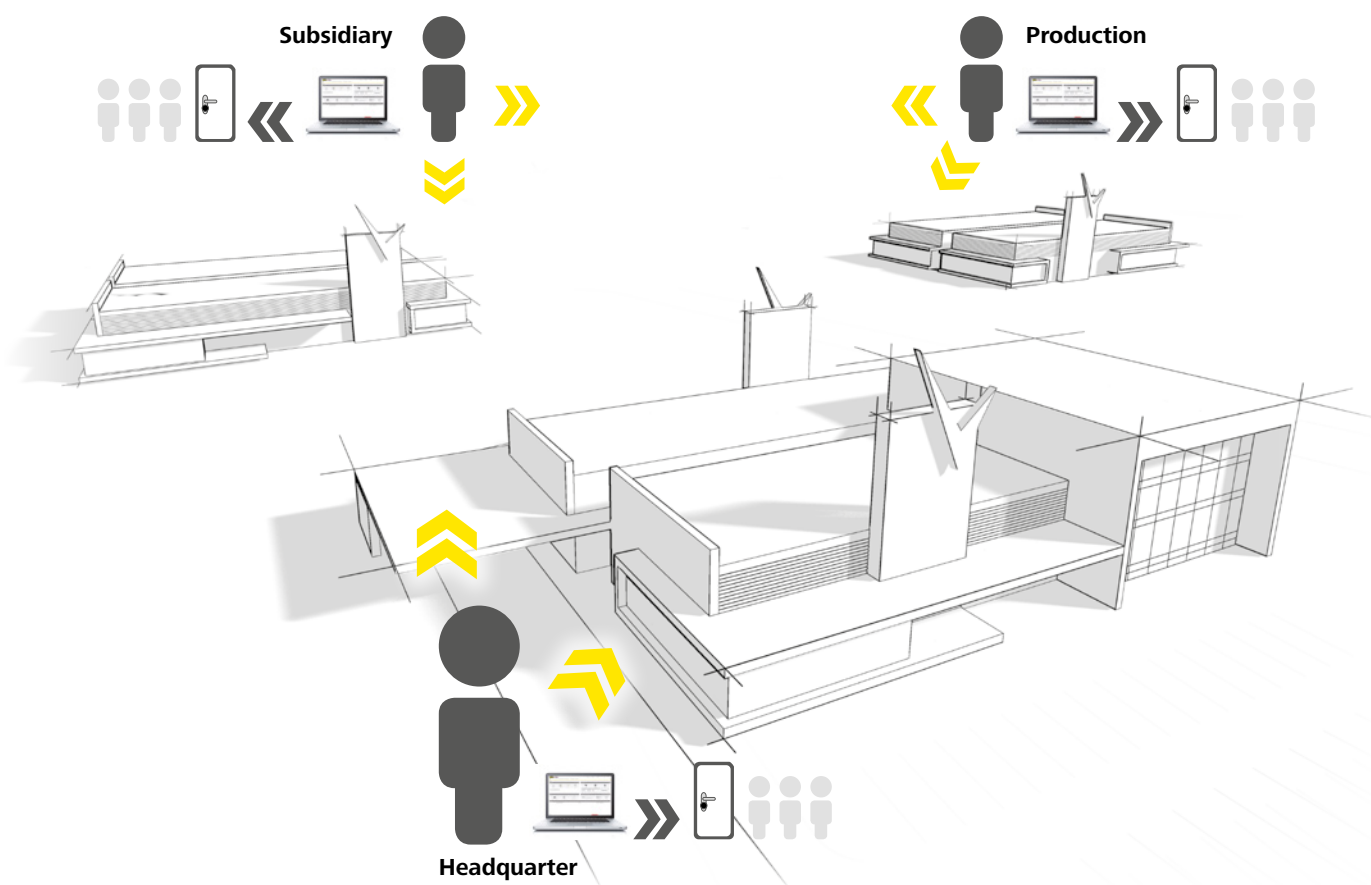


-  Tenants are delighted about the increased **flexibility due to individual authorisations** and can create individual authorisation structures.
-  The **authorisation** can be adapted precisely to the **duration of the tenancy** and can be revoked at any time.
-  Landlords remain in full **control of their locking components** and their states (e.g. battery status, access).
-  The **data protection settings** for event logging can be individually adjusted for each component, both by owners and tenants.
-  Tenants can choose their **matching KeyCredit licence model**.

## System overview | Multi-administration

AirKey allows a simple management of companies with distributed sites and complex personnel structures. AirKey's multi-administrator feature allows

the determination of multiple administrators that can not only manage their own sites, but also the entire locking system across all sites of the company.



More flexibility thanks to an **individual management of independent company units**. This saves management costs.



**Authorisations** are **granted locally**, multi-administrators can manage all company sites.



Remain in control of multi-administrators' actions. In addition, sub-admins with restricted authorisations can be created.



Anonymity and the saving of personal access event logs can be adjusted as per **national data protection guidelines**.



Free software and **appealing KeyCredit flat rates**.

# System overview | AirKey layout

AirKey locking components easily match any requirements for access solutions thanks to their versatile characteristics and numerous versions.

The vast number of organisational options, the fact that no expensive IT infrastructure is required and the easy assembly allow to quickly and simply install AirKey.

**AirKey locking components**  
The most important characteristics of AirKey cylinders, wall readers and padlocks:



	AirKey cylinder	AirKey cam lock	AirKey padlock	AirKey wall reader
Suitable for indoor and outdoor use	●	●	●	●
Suitable for security areas	●			●
For furniture and cabinets		●	●	
Most convenient operation				●
No cabling required for the installation	●	●	●	
Battery-operated	●	●	●	

● Perfectly suited

Please take note of the countless versions and the wide range of accessories that enable even more applications.

## Various sites

The options of assigning authorisations from anywhere in the world make AirKey ideal for use across various sites.

## AirKey app

The AirKey app saves access authorisations of different systems. It is also a coding station for further identification media and transfers the information stored in the component to the online administration.

### Inside access

AirKey is also effective on the inside, e.g. in buildings with shared utilisation (shared office).

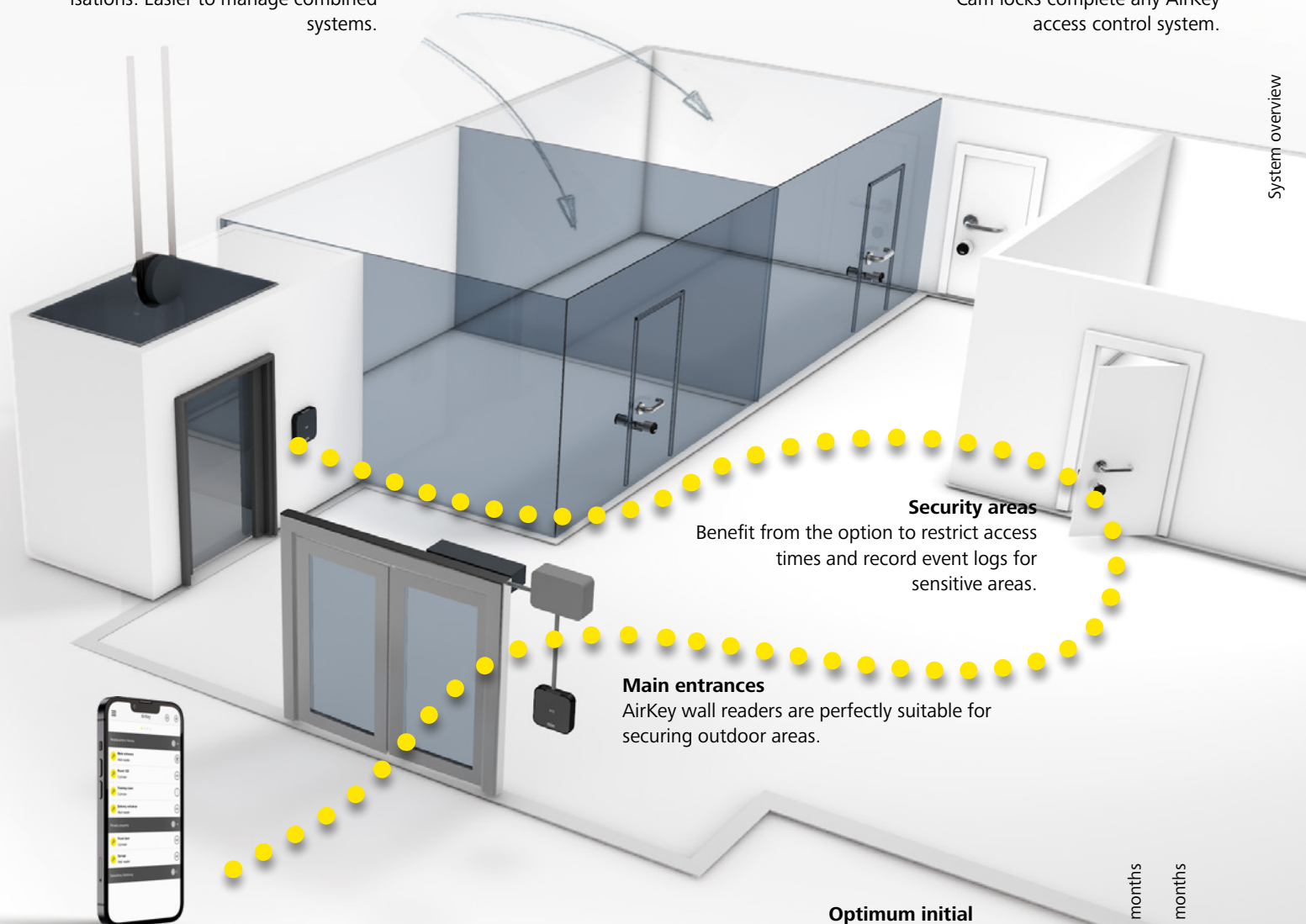
The AirKey authorisation function allows to share administration authorisations. Easier to manage combined systems.

### Side entrances

Send access authorisations to suppliers or maintenance service providers.

### Lockers & filing cabinets

Cam locks complete any AirKey access control system.



System overview

### Automatic updates

After locking with Bluetooth, the blacklist, all identification media event logs and the time are automatically updated. This ensures automated security in the access control system. The more smartphones are in use, the faster the system updates. Any AirKey component that has not been updated for 6 hours is automatically updated. Additionally this can also be activated after every locking process. This reduces the maintenance costs of your technicians.



### KeyCredits

KeyCredits are used to assign access authorisations. Merely one KeyCredit is necessary to create or change an identification medium with any number of access authorisations.

### Optimum initial equipment

	KeyCredits 10	KeyCredits 50	KeyCredits 100	KeyCredits Unlimited for 12 months	KeyCredits Unlimited for 36 months
1-9 persons	○	●			
10-49 persons		○	●		
50-100 persons			○	●	●
> 100 persons				●	●

- Frequent changes to access authorisations
- Infrequent changes to access authorisations

These values are guide values. Visit your specialist security retailer to obtain advice on EVVA KeyCredits.

» Page 35, 38

## System overview | Processes

### Installing software and components



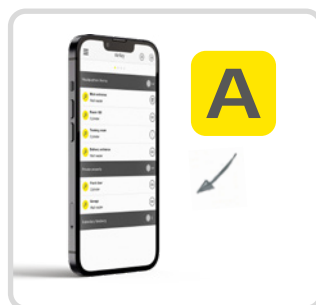
#### Installing locking components

AirKey cylinder installation, e.g. in doors; AirKey wall reader installation, e.g. for sliding doors.



#### Register locking system

Register to the AirKey online administration with your browser to create a new locking system.

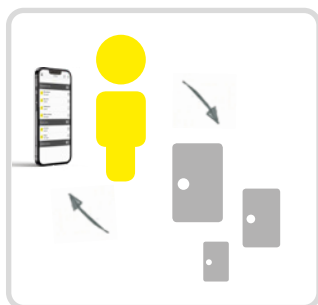


#### App download

Simply install the free AirKey app from the Google Play Store or Apple App Store using Send a Key.



### Creating and setting up authorisations



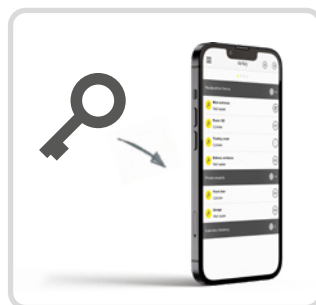
#### Create access authorisations

Simply drag-and-drop access components to the smartphone or identification media to create access authorisations.



#### Send keys

Simply send access authorisations, including a personal text message (max. 150 characters), to a smartphone with a push notification or create identification media.



#### Receive keys

Smartphones immediately receive a key with access authorisation after having created it in the online administration.



## Set up the locking system



### Register smartphones

Easily and conveniently register smartphones in the system by SMS.



### New locking components

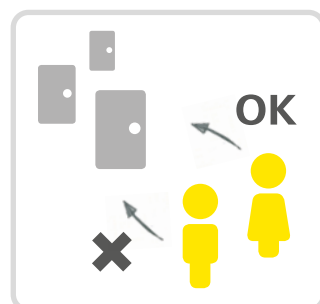
All locking components within the locking system are added using a smartphone in maintenance mode.



### Redeeming KeyCredits

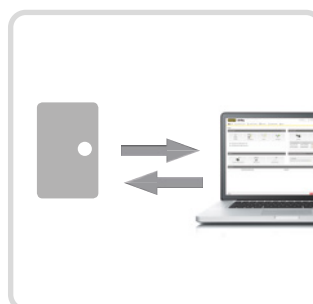
Simply enter one or several KeyCredit codes in the online administration.

## System administration | Reading out information



### Blocking

The access event and the battery level of the identification media are temporarily saved and transferred to the online administration upon the next contact.



### Automatic updates

After locking with Bluetooth, the blacklist, all identification media event logs and the time are automatically updated. This ensures automated security in the access control system.

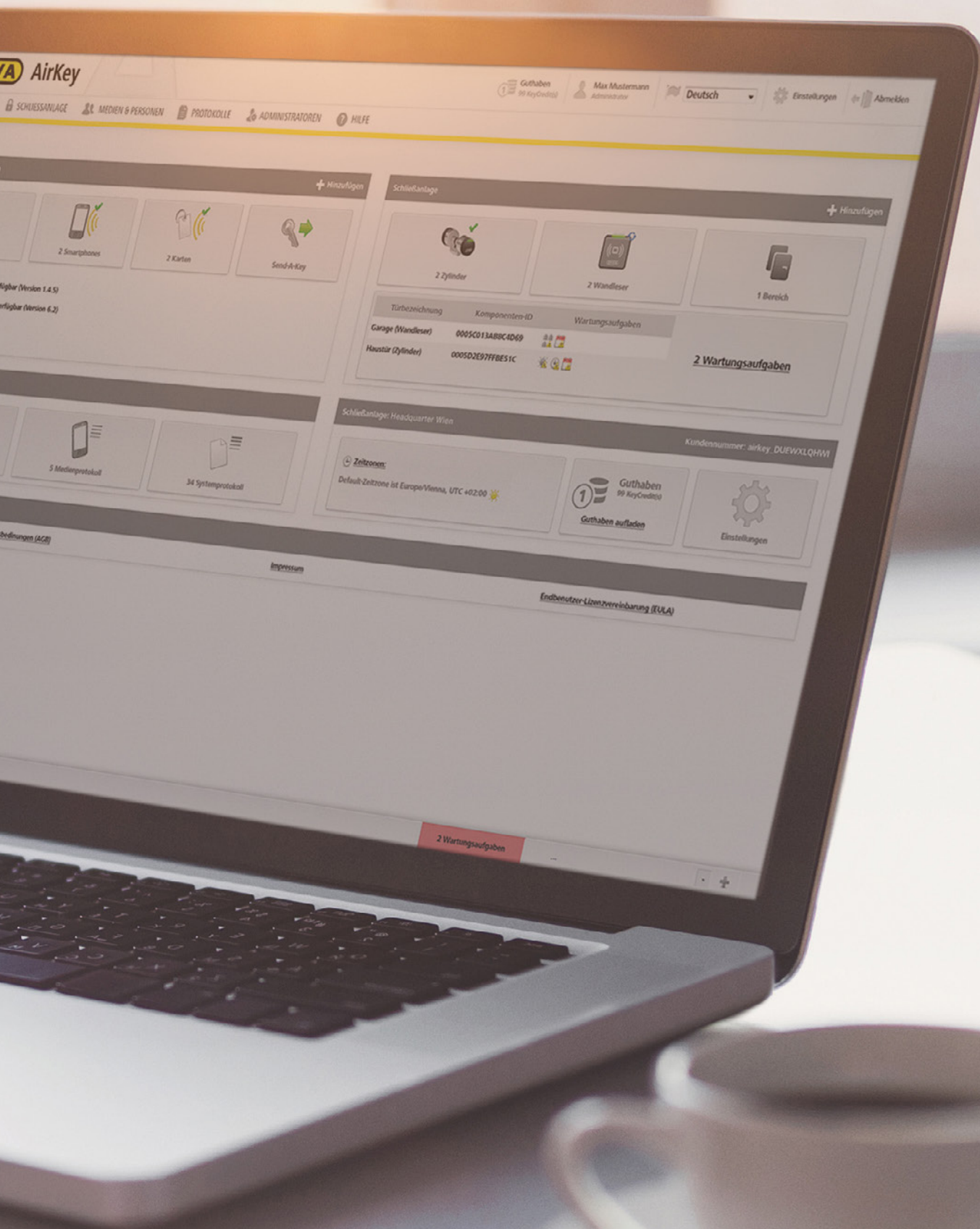


### Who accessed what and where?

Access events and door information is available at any time, such as the number of times the lock has been opened, user access events, times, battery status.

# AirKey online administration & AirKey-App





# AirKey online administration | Benefits

## System and design

AirKey innovations are not just restricted to their revolutionary security concept. The simple operation and online administration are also very innovative.

## Functions

AirKey offers all the important functions of an effective access control system:

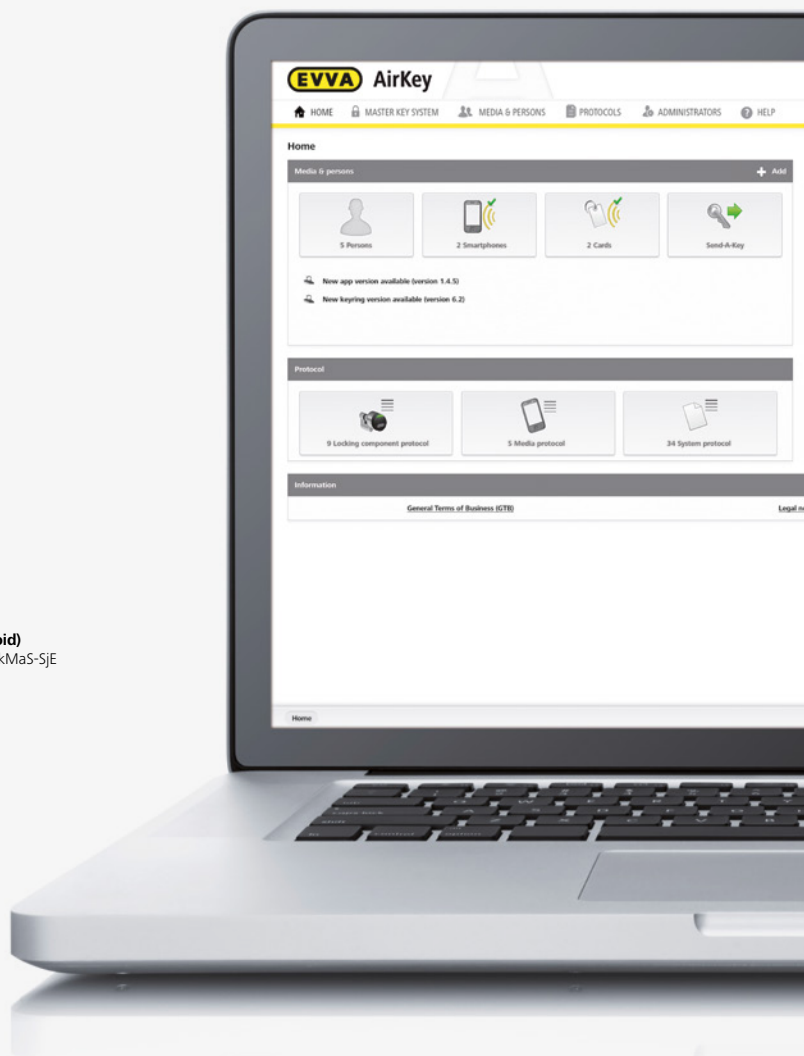
- › Door management
- › User management
- › Creating door areas
- › Event log



Send a Key (iOS)  
<https://youtu.be/2UOMMhiyRY>



Send a Key (Android)  
<https://youtu.be/T4vkMaS-SjE>



### Send a Key

Simply send the key including a personal text message (max. 150 characters) via a push message.



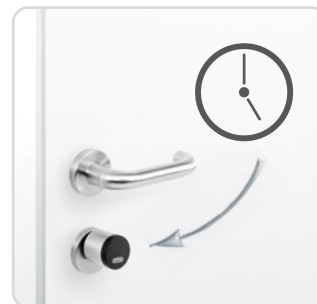
### Multi-administration

Multiple admins and sub-admins with restricted rights can separately manage company locations.



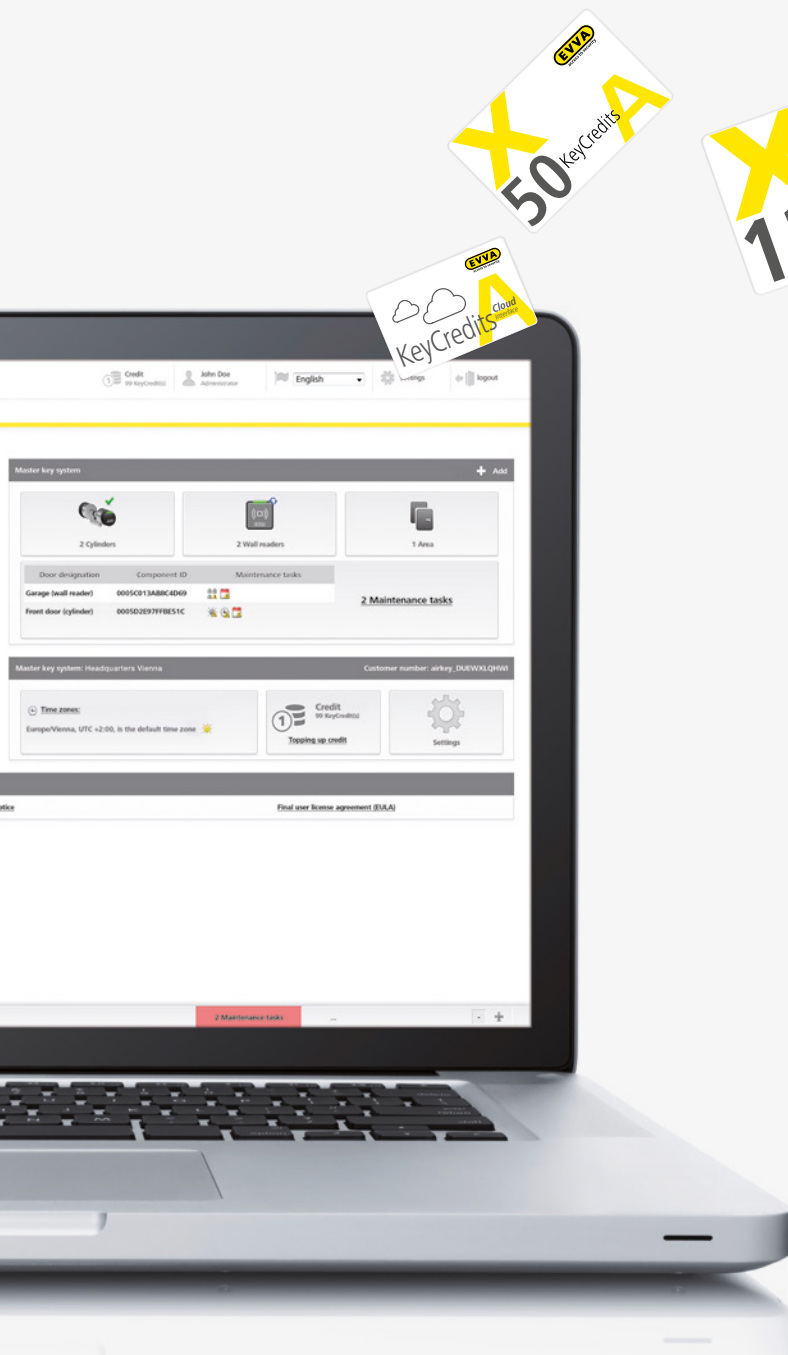
### Cross-platform compatibility

AirKey is browser-neutral, it runs on different operating systems and is available in ten languages



### Office mode

Be it manually, semi or fully automatically – with AirKey you have the choice.



## KeyCredits – pay per key

### This is how it works:

Merely one KeyCredit is required to create and change access authorisations. As a rule, deleting access authorisations is free of charge.

#### 1. Purchasing KeyCredits

KeyCredits are exclusively available from your EVVA Partner. The purchased credits are loaded to the AirKey online administration.

#### 2. Creating access authorisations

Easily set up access authorisations for a mobile phone in the AirKey online administration. For example: person 1 is authorised to enter and exit door 1 and door 2 at certain times.

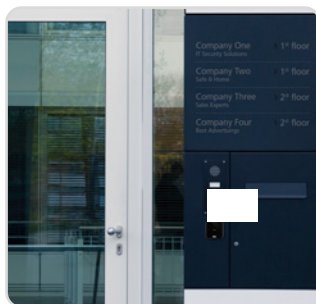
#### 3. Debiting a KeyCredit

A KeyCredit is debited for the creation or change of access authorisations. The authorisations are directly sent to the mobile phone or the identification medium upon the next update.



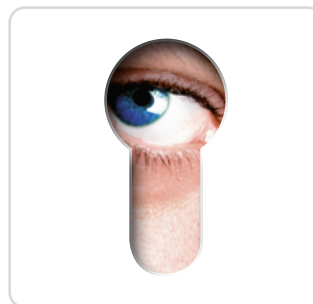
### Dual control principle

The requester can only view event logs after the second admin grants access via a TAN.



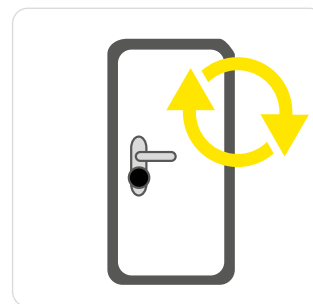
### Component sharing

Share your locking components with other users (shared office).



### Privacy by design

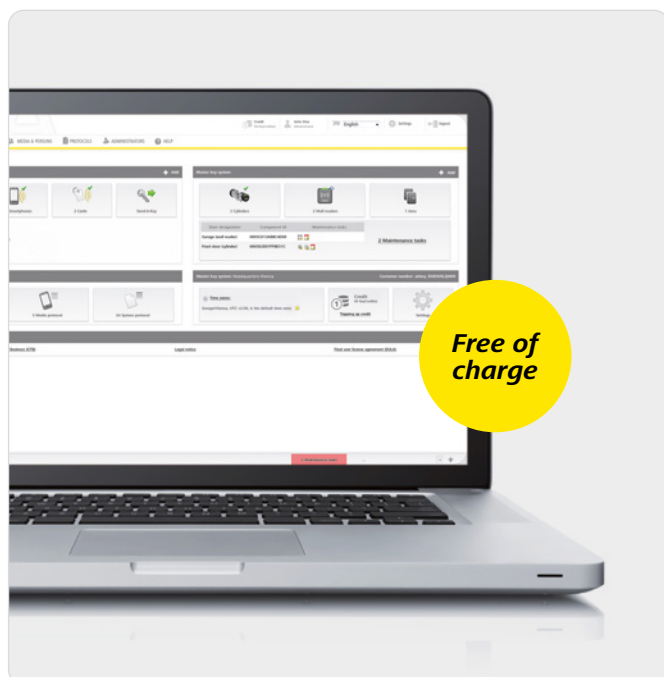
The technically sophisticated design uses cutting-edge security mechanisms to securely encrypt all data.



### Doors up-to-date

The clear dashboard in the online administration lists all maintenance tasks.

# AirKey online administration | Technical description



## Compatible internet browsers



The AirKey access authorisation system is compatible with all conventional internet browsers as well as operating systems and requires no software installation or special IT infrastructure.

AirKey online administration is operated from the secure, maximum availability EVVA server in Austria.

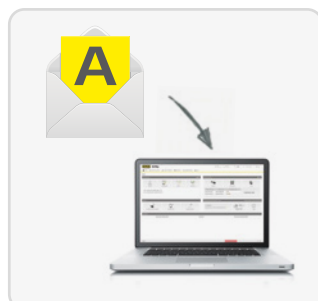


**Software tutorial**  
<https://youtu.be/j-D2FmaGpfg>

## Registration process

### Registration

Register on the AirKey registration page.



### Confirmation

You will receive a confirmation e-mail to complete the registration process.








### Login

You can now log in, create and manage your system.

### Two-factor authentication

Access can be secured using two-factor authentication and smsTan.

## Technical information

System requirements	Supported browsers: Internet Explorer IE 9+, Firefox 6+, Chrome 14+, Safari 6+   Operating systems: All conventional operating systems: Windows 7 (or higher), MacOS 10.10 (or higher), Linux   Internet access: 1024 kBit/s (1 mBit/s) or faster   Optionally: Coding station requirements (system suitability depends on drivers): Oracle Java Runtime		Multi-administration
Media and user management	Assign persons to different media   Transfer authorisation profiles   Deactivate media (blacklist)   Add and remove media with online administration and smartphones or the coding station   Import/export functions for event logs and personal data   Assign authorisations including print function		Component sharing
Maintenance functions	Special maintenance mode for service technicians' mobile phones   Individual prioritisation of maintenance tasks in the online administration: Battery level and warnings, blacklist status, time, etc.   Displays maintenance tasks in the online administration and the app   Maintenance tasks can be exported to PDF lists   Add and remove locking components and identification media   Replace thumbturns or cylinders without having to change authorisations   Regularly receive maintenance tasks by email or push notification to your smartphone		Doors up-to-date
Locking components	"Delivery Status" or "System" mode   Allows to define areas consisting of several components   Configure individual time zones for each cylinder   Time automatically set to summer or winter time   Locking components can be shared for administration with other administrators   Manual, semi-automatic and fully automatic office modes   Calendar for public holidays   Individually configurable release period per component (from 1-250 seconds)   Location data per component		Cross-platform compatibility
Authorisations	Authorisation administration featuring drag-and-drop technology   Permanent access with and without an expiry date   Periodic access   Single access   Individual access: Combine up to 8 permanent, periodic and single access patterns   Individual push notifications upon changing authorisations		Privacy by design
Event log	Locking components and area event log   Event log at media and personal level   Tamper-proof system event log   Individual event logs settings for media and locking components (on/off/restricted)   Define automatic expiry dates for event log entries		Automatic backup
Language	Available languages: CZ, DE, EN, ES, FR, IT, NL, PL, PT, SK, SV		Send a key
			AirKey Cloud Interface

Login + registration	<a href="https://airkey.evva.com">https://airkey.evva.com</a>
System manual, Tutorial	<a href="http://www.evva.at/airkey/en">www.evva.at/airkey/en</a> Print version on request, Tutorial: <a href="http://video.evva.com/tutorials/airkey/software">http://video.evva.com/tutorials/airkey/software</a>

# Software | KeyCredits



Businesses with various sites

## KeyCredit Unlimited

KeyCredits Unlimited for 12 or 36 months are the customised solution for medium-sized and large companies.

Low investment costs for the software and, in contrast to KeyCredits 10/50/100, any number of changes to authorisations is included in this variant.

It goes without saying that you can optionally switch to 10/50/100 after 12 or 36 months.



### Unlimited KeyCredits for 12 months

Unlimited creation of and changes to identification media with any number of access authorisations for a duration of 12 months

Recommended use

Over 50 persons for a duration of 12 months

Frequent changes to access authorisations

Over 100 persons for a duration of 12 months

Product code

E.ZU.LM.KC12M



### Unlimited KeyCredits for 36 months

Unlimited creation of and changes to identification media with any number of access authorisations for a duration of 36 months

Recommended use

Over 50 persons for a duration of 36 months

Frequent changes to access authorisations

Over 100 persons for a duration of 36 months

Product code

E.ZU.LM.KC36M



Small as well as medium-sized companies and private individuals

## KeyCredits 10, 50, 100

KeyCredits 10/50/100 are the customised solution for small and medium-sized companies. Particularly if you change authorisations only in rare cases or only a few people access your facilities.

You benefit from all the features of a comprehensive access software and thanks to the free AirKey software, you only pay what you actually need. Merely one KeyCredit is necessary to create or change an identification medium with any number of access authorisations.

Switching to KeyCredit Unlimited is possible at any time. It goes without saying that individual, unused credits remain valid and can be used once KeyCredit Unlimited has expired.



### KeyCredits 10

Create or change an identification medium with any number of access authorisations ten times.

Recommended use	1-9 persons Few changes to authorisations
Product code	E.ZU.LM.KC010



### KeyCredits 50

Create or change an identification medium with any number of access authorisations fifty times.

Recommended use	1-9 persons Frequent changes to authorisations 10-49 persons Few changes to authorisations
Product code	E.ZU.LM.KC050



### KeyCredits 100

Create or change an identification medium with any number of access authorisations one hundred times.

Recommended use	10-49 persons Frequent changes to authorisations 50-100 persons Few changes to authorisations
Product code	E.ZU.LM.KC100

# Software | KeyCredits



Activate interface

## KeyCredit AirKey Cloud Interface

You need 350 KeyCredits to activate the interface . You can pay either with your existing KeyCredits balance or with one-off use of the KeyCredits AirKey Cloud Interface card.

**Tip:** Make sure that you have enough KeyCredits and select "Receive important e-mail updates from EVVA." This will ensure that you are notified when you run out of KeyCredits or they expire.



### KeyCredit AirKey Cloud Interface

To activate the AirKey Cloud Interface, you need a one-off balance of 350 KeyCredits. Alternatively, you can use the AirKey Cloud Interface card.

Recommended use

For all those who want to integrate AirKey into their own software, such as Operators of shared offices, mobile healthcare services, guest houses, companies with various sites

Product code

E.ZU.LM.ACI

## System accessories



### Mini Coding station

Just like your smartphone, this optional Mini Coding station can create and manage identification media (cards, key tags). AirKey cylinders can also be directly added to or updated in the online administration using the Mini Coding station. Please note the system requirements and availability of the Oracle Java browser plug-in to be able to use the Mini Coding station or download the applet in the online administration.

Product code	E.ZU.ALLG.CSMI
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### Emergency power device

If batteries are not replaced in due time despite the warnings in the AirKey cylinder, you require an emergency power device to operate AirKey cylinders.

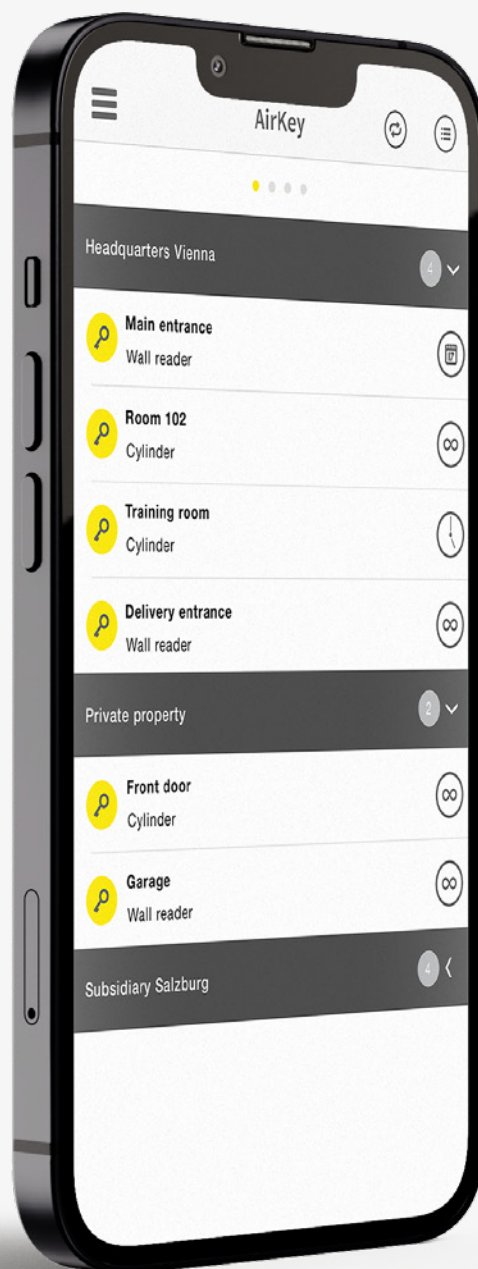
Product code	E.ZU.ALLG.NG3
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## AirKey app | Benefits

### System and design

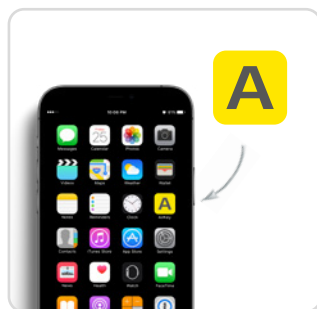
The AirKey app complements the AirKey online administration.

It saves access authorisations to consequently turn your smartphone into an electronic key.



#### The smartphone is the combi key

Operate several systems using merely one smartphone.



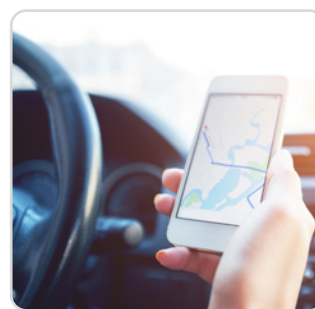
#### Free download

The AirKey app is available in the Google Play Store and the Apple App Store free of charge.



#### Smartphone is the key

Create and update additional identification media on your smartphone using the AirKey app.



#### Geotagging

Save component location data and use it in the navigation app.

## Additional functions

- › Save access authorisations
- › Automatic updates for maintenance tasks
  - › Coding station for identification media
- › Combi key for several access control systems
  - › Event logging of completed accesses



AirKey online  
administration

AirKey app &  
Accessories



### App security

Activate the encryption method, adjust the Bluetooth range and guarantee effective protective mechanisms.



### Automatic updates

After locking with Bluetooth, the AirKey components are automatically updated.



### Change smartphones

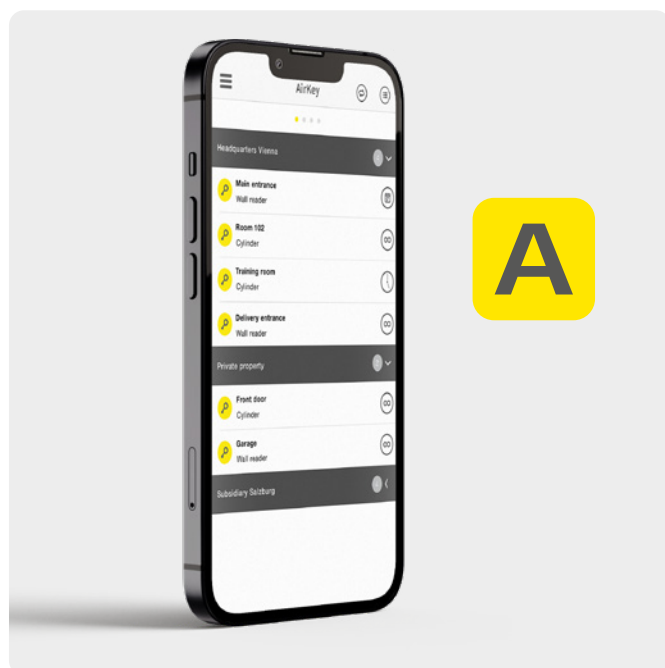
Depending on the system settings, smartphones are changed automatically or the change must be confirmed by an administrator.



### Very simple maintenance

Assign maintenance authorisations to any smartphone.

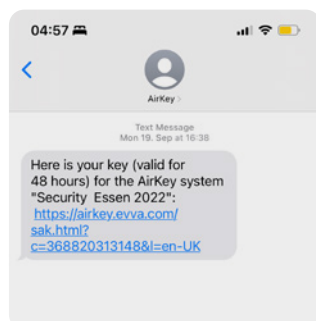
## AirKey app | Technical description



The AirKey app operates in conjunction with the AirKey online administration. It saves access authorisations to consequently turn your mobile phone into an electronic key.

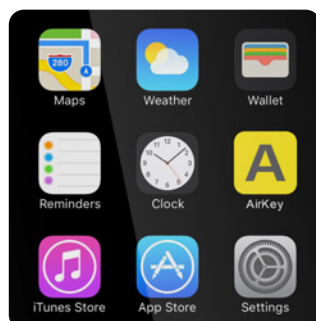
The AirKey app also updates AirKey locking components and AirKey identification media using the AirKey online administration.

## Procedure and commissioning



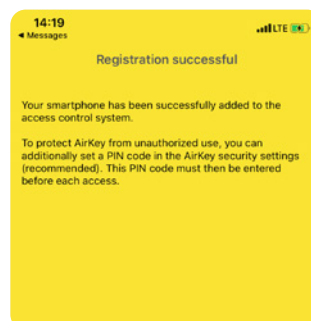
### Receive the key

The registration code is sent by SMS to the smartphone.



### Download the AirKey app

Simply download the AirKey app to your smartphone.



### Automatic registration

The smartphone is now automatically registered in the AirKey system.



### Open the door

The cylinder now identifies the smartphone as a key and authorises it to open the door.

## Performance features

Platform	Android   iPhone
System requirements	Android ≥ 6.0 and ≥ iOS 11   Around 10 MB available memory
Authorisation memory	For individual doors   For several doors   For several systems
Operating modes	Standard   Maintenance mode
Standard functions	Displays available authorisations   Automatically updates or deletes authorisations   Detailed view of authorisations   Event logs of access patterns   Updates AirKey cylinders and AirKey identification media using AirKey online administration   Receive SMS registrations for new smartphones   Display saved map-based data (interface to standard navigation apps)   Hands-free mode for Bluetooth   Display push notifications for received unlocking authorisations   Update identification media   Update locking components (return of data from passive identification media)
Maintenance functions	Add and remove AirKey cylinders and AirKey identification media for the locking system   Automatically display maintenance tasks   Display battery states   Create geotagging when adding components   Encode identification media using components
Security features	AirKey app PIN code (individually configurable)   Individually configurable security level (locking possible with unlocked display only, always lock (BLE only))   End-to-end encryption between app and backend
Language	Available languages: CZ, DE, EN, ES, FR, IT, NL, PL, PT, SK, SV



Smartphone is the key ring



PIN protected (optional)



Smartphone creates keys



End-to-end encryption



Free download



Very simple maintenance



Geotagging

AirKey app	Google Play Store   Apple App Store
Tested smartphones	<a href="http://www.evva.at/airkey">www.evva.at/airkey</a>

## Accessories | Identification media

### J80k + D08k - JCOP + Mifare Desfire chip technology

The combination of JCOP and Mifare Desfire enables the use of identification media also for third-party applications, such as time sheets, canteen payments, coffee machines, controlling alarm systems, etc.



Color set RGBWY - Red, Green, Blue, White, Yellow

#### AirKey key tags (SmartMX3)

To operate AirKey access components

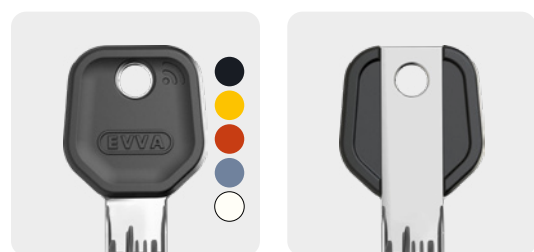
Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Packing unit	M5 – 5 units   M25 – 25 units   M100 – 100 units
Colour	SW- Black   RT- Red   GN - Green   BL - Blue   GE - Yellow   WS - White   Color Set RGBWY - Red, Green, Blue, White, Yellow
Option	TXT - Custom key label for each medium 2 rows, max. 12 characters per line
Conditions of use	Ambient temperature range: -20°C to +85°C   IP68 protection
Product code	E.A.IM.SH.J80K+D08K.[Sales unit].[Colour].[Option]



#### AirKey - Combi Key (SmartMX3)

To operate AirKey access components

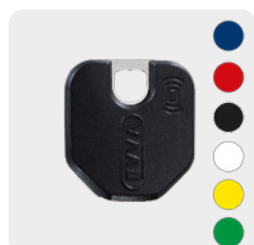
Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Colour	SW- Black   RT- Red   GN - Green   BL - Blue   GE - Yellow   WS - White
Technical installation situation	LSH - Long key neck
Option	TXT - Custom key label for each medium 3 rows, max. 9 characters per line
Conditions of use	Ambient temperature range: -5°C to +85°C   IP67 protection
Data storage	25 years
Product code	M...SL.SL-A.[Colour].J80K+D08K.[Option]



#### AirKey Akura44 - Combi Key (SmartMX3)

To operate AirKey access components

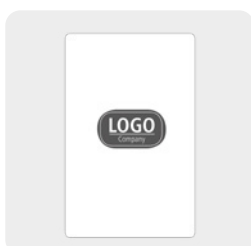
Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Colour	RAL9011 – Graphite black   RAL1023 – Traffic yellow   RAL2001 – Red orange   RAL5014 – Pigeon blue   RAL9010 – Pure white
Optional security features	MAG – Magnetic copying protection
Option	TXT - Custom key label for each medium 3 rows, max. 9 characters per line
Conditions of use	Ambient temperature range: -5°C to +85°C   IP67 protection
Data storage	25 years
Product code	M.A44.SL.SL-A.[Colour].[Options]



### AirKey-Mini-Tag (SmartMX3)

To operate AirKey access components

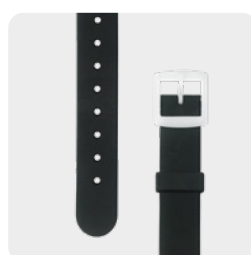
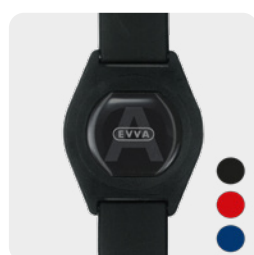
Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Packing unit	M5 – 5 units
Colour	SW- Black   RT- Red   GN - Green   BL - Blue   GE - Yellow   WS - White
Option	TXT - Custom key label for each medium 3 rows, max. 9 characters per line
Conditions of use	Ambient temperature range: -5°C to +85°C   IP67 protection
Product code	E.A.IM.CSH.J80K+D08K.[Sales unit].[Colour].[Option]



### AirKey-EVVA-Card (SmartMX3)

To operate AirKey access components

Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Variant	EC – card in EVVA design   PC – cards in neutral design
Packing unit	M5 – 5 units   M25 – 25 units   M100 – 100 units
Conditions of use	Ambient temperature range: -25°C to +60°C   IP67 protection
Product code	E.A.IM.KA.J80K+D08K.[Variant].[Sales unit]



### AirKey - Combi-Whristband (SmartMX3)

To operate AirKey access components

Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Packing unit	M5 – 5 units   M25 – 25 units   M100 – 100 units
Colour	SW- Black   RT- Red   BL - Blue
Conditions of use	Ambient temperature range: -5°C to +60°C   IP67 protection
Chemical resistance	Washing agents   Ethanol   Detergents   Oils and greases
Material	Band: TPU   Casing: PC/ABS
Dimensions	Strap 280 x 18 mm   Casing 42,0 x 36,0 x 5,1 mm
Product code	E.A.IM.AB.J80K+D08K.[Sales unit].[Colour]



### AirKey - Combi sticker round 30mm (SmartMX3)

To operate AirKey access components

Chip	J80K+D08K – NXP J3D081 JCOP and Mifare Desfire / NXP DESFire EV2-J, JCOP4 P71
Packing unit	M5 – 5 units   M25 – 25 units   M100 – 100 units
Colour	WS - White
Conditions of use	Ambient temperature range: -25°C to +60°C   IP67 protection   Attention: Not suitable for metal surfaces, smartphones and RFID / NFC media (13.56MHz). A function test before large-scale use is recommended.
Product code	E.A.IM.ST.J80K+D08K.[Sales unit].WS



# AirKey cylinder



AirKey online  
administration

AirKey app &  
Accessories

AirKey cylinder



## AirKey cylinder | Benefits

### Design



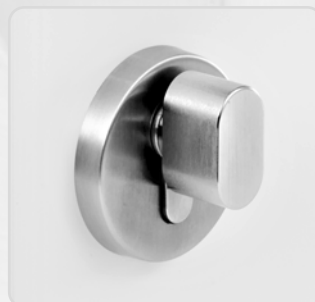
#### Cylinders communicate

Visual and audible feedback for successful authorisation, rejection or maintenance task notifications.



#### Various finishes

You have the choice. AirKey cylinders are available with different finishes, depending on customer demands.



#### Ideally coordinated

The mechanical, inside thumb turn is of a high quality and perfectly suitable for the overall design.

#### Additional benefits

- › Elegant design, matches any escutcheon
- › High-grade materials
- › Outstanding reader properties
- › Tamper-proof

### Function



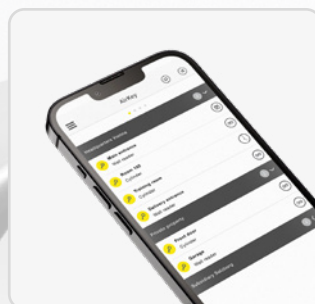
#### Access control on both sides

Vital for areas that also require access control for persons leaving the facility.



#### Half cylinder version

The AirKey half cylinder for tubular safes and secure as well as professional key storage.



#### For iPhone and Android smartphones

Be it iPhones or Android smartphones, AirKey gives you the choice how to unlock your doors.

#### Additional benefits

- › The event log saves the last 1,000 events
- › With blacklist function
- › Particularly long battery life
- › Automatic updates after Bluetooth locking process

## Technology

### Additional benefits

- › Suitable for use outdoors
- › Matches all conventional locks
- › Also suitable for multi-point locks
- › Operates with commercially available CR2 batteries
- › 90 minute fire protection
- › ECDSA + AES encryption for secure connections between components



### Drilling and plug pulling protection:

AirKey cylinders are of a high, mechanical quality and equipped with drilling and plug pulling protection.



### Modular design

The modular AirKey cylinder design enables subsequent elongation adaptations to simplify warehousing and add flexibility during assembly.



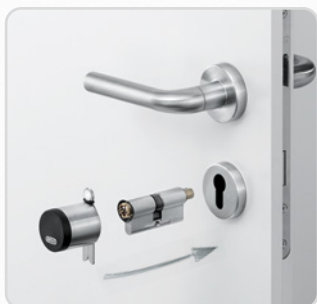
### Anti-panic function

AirKey cylinders with their patented cam rollback function are suitable for all conventional emergency exit and panic locks as per EN 179 + EN 1125.

## Assembly

### Additional benefits

- › Easy assembly
- › Suitable for any conventional door leaf thickness
- › Supported by assembly videos and manuals



### Assemble outside thumbturn

Insert the batteries into the outside thumbturn and assemble it on the cylinder body using the AirKey cylinder assembly tool.



### Secure the cylinder

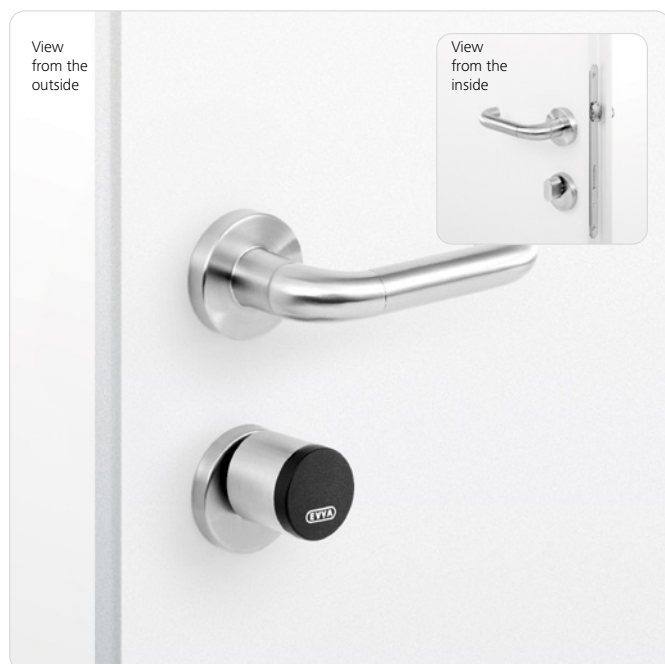
Secure AirKey cylinders to the lock using cylinder fixing screws.



### Position inside thumbturn

Assemble inside thumbturn.

## AirKey cylinder | Thumbturn cylinder, European profile, SY-MO KZ-S



### Standards and guidelines



The AirKey thumbturn cylinder is the ideal solution for doors with maximum security requirements on the inside and outside, featuring external access control. The mechanical thumbturn guarantees a way out from the inside at

any time. For instance, the cylinders are suitable for solid panel doors and metal frame doors. AirKey cylinders are also suitable for existing doors in listed monuments as there is no need for drilling.

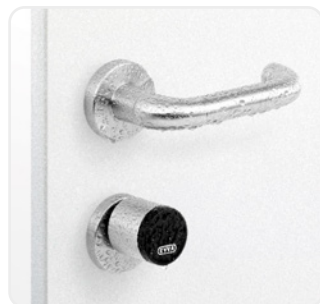


### Assembly tip

Assembly requires the special assembly tool

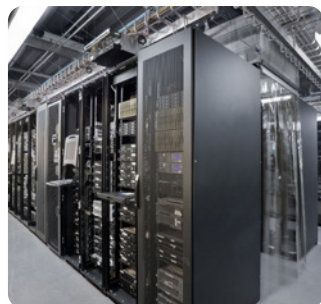
» Page 94

### Application examples



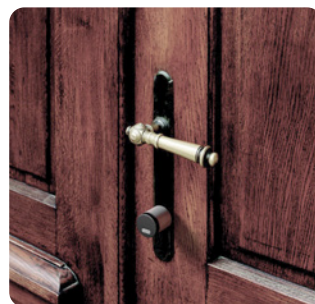
#### External doors on buildings

AirKey thumbturn cylinders are perfectly suitable for securing the main, side or back entrances of buildings.



#### Maximum security

An AirKey thumbturn cylinder is particularly suitable for areas where security is paramount, such as server rooms.



#### Ideal for listed monuments

Ideally suitable for historically significant doors in which merely the cylinders can be replaced for reasons of monumental conservation.



#### Escape doors as per EN 179<sup>1</sup>

Perfectly suitable for escape doors of all kinds with patented cam rollback function.

## Technical information

Cylinder length on the outside A in mm	31   36   41   46   + 5 mm ... Standard: $A + I \leq 92$ mm, special lengths: $A + I \geq 97$ mm
Cylinder length on the inside I in mm	K27   K31   K36   K41   K46   + 5 mm ... Standard: $A + I \leq 92$ mm, special lengths: $A + I \geq 97$ mm
Finish	NI – Nickel   NP – Polished nickel   MP – Polished brass   PB – Brown patina   PS – Black patina
Thumbturn shape	X1K – Inside thumbturn, mechanical (standard)   BLIND – Blind module   ATA – Adaptive thumbturn axis
Technical installation situation	FZG – Free-wheel function (from 31/K31 to 81/K81)   FAP – Anti-panic function (from 31/K31 to 81/K81; from 81/K86 to 81/K111 on request)   FLU – Installation situation regardless of the position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SEP – European profile   BIF – Biffar   Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features	Freely turning outside thumbturn to prevent manipulations   Rotary damper   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 15684: 1.6.B.3.0.D.3.D   Suitable for locks as per EN 179/1125 (when using the anti-panic function (FAP))   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: $-20^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder fastening screw   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Thumbturn shape



Technical installation situation



Elongated outside thumbturn axis



Cam



Additional certificate



Accessories

Versions and options

see » **Page 64**

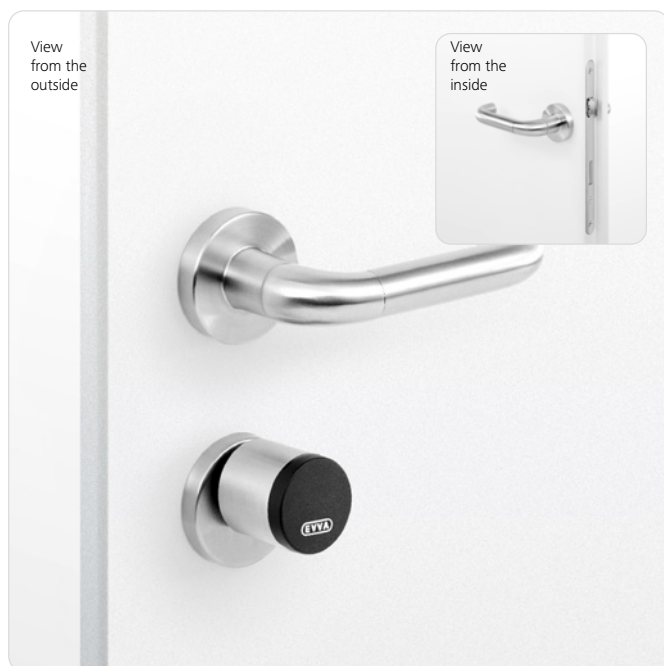
Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.KZ-S.[Outside cylinder length A/inside cylinder length I]. [Finish].[Option]
Example	E.A.PZ.KZ-S.31/K27.NI

<sup>1</sup> In preparation

## AirKey cylinder | Half cylinder, European profile, SY-MO HZ-S



### Standards and guidelines



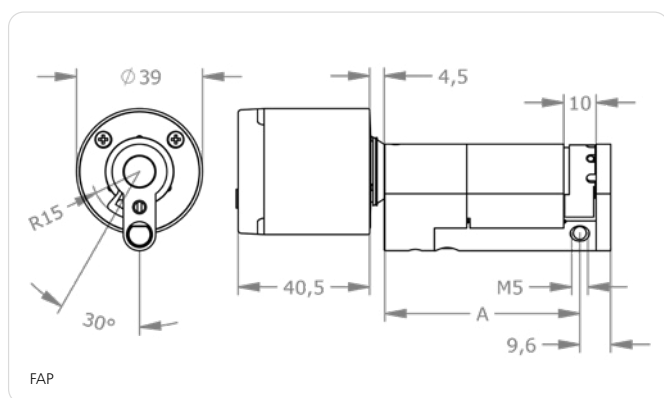
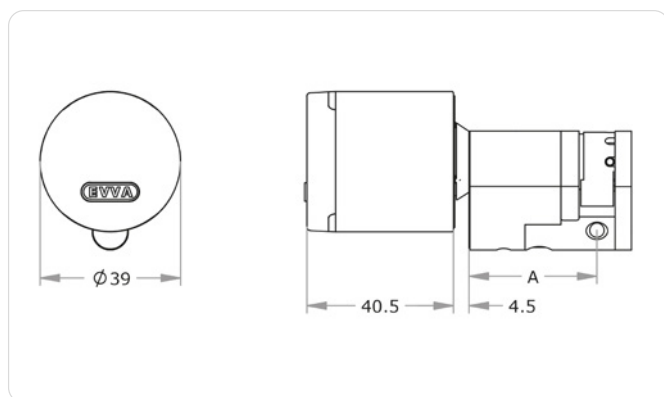
AirKey half cylinders are the ideal solution for doors or key switches requiring authorisation checks merely on one side, no cylinder on the inside and maximum security requirements on the inside and outside.

Additionally, AirKey half cylinders are perfectly suitable for existing doors, listed monuments as well as metal frame doors.

### Assembly tip

Assembly requires the special assembly tool

» **Page 94**



### Application examples



#### Key-Switches

AirKey half cylinders are also suitable for installation in key-switches. This allows to actuate various systems, e.g. garage doors. (Option FSR function).



#### Control cabinet

AirKey half cylinders are also suitable for installation in control cabinets.

## Technical information

Cylinder length on the outside A in mm	31   36   41   46   + 5 mm ... Standard: A ≤ 92 mm, special lengths: A ≥ 97mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Technical installation situation	FZG – free-wheel function (from 31 to 81)   FAP – anti-panic function (from 61 to 81; 31 to 57 with elongation module (l = 31 mm) on request)   FLU – installation situation regardless of the position   FSR – cam lock function (31, 36, 41; from 46 to 111 on request)
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SEP – European profile   BIF – Biffar Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams   RIT – RITTAL cam function (31, 36)
Additional certificate	SKG – SKG***
Security features	Freely turning outside thumbturn to prevent manipulations   Rotary damper   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 15684: 1.6.B.3.0.D.3.D   Suitable for locks as per EN 179/1125 (when using the anti-panic function (FAP))   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder fastening screw   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Technical installation situation



Elongated outside thumbturn axis



Cam



Additional certificate



Accessories

Versions and options

see » **Page 64**

Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.HZ-S.[Outside cylinder length A].[Finish].[Option]
Example	E.A.PZ.HZ-S.31.NI

## AirKey cylinder | Double cylinder, European profile, SY-MO DZ-S

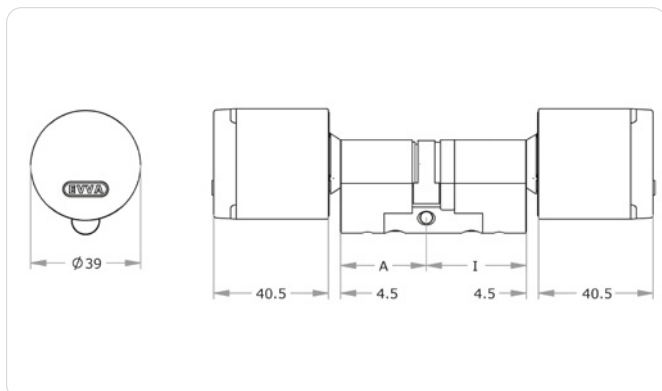


### Standards and guidelines



AirKey double cylinders for double-sided access are the right security product if you require access control on both sides for doors with maximum security requirements on the inside and outside.

In addition, the AirKey double cylinder is perfectly suited for existing doors in listed monuments and metal frame doors.



### Assembly tip

Assembly requires the special assembly tool

» **Page 94**

### Application examples



#### Doors to restrict areas

AirKey double cylinders are suitable for reciprocally restricting two areas.




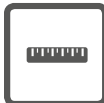

#### Permanent event logging

The double cylinder was designed for areas requiring permanent logging of all entry and exit events.






## Technical information

Cylinder length on the outside A in mm	31   36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lengths: A + I ≥ 97 mm For anti-panic function (FAP): A or I ≥ 61 mm
Cylinder length on the inside I in mm	31   36   41   46   + 5 mm ... (Standard: A + I ≤ 92 mm, special lengths: A + I ≥ 97 mm, for anti-panic function (FAP): A or I ≥ 61 mm)
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Technical installation situation	FZG – free-wheel function (from 31/31 to 81/81)   FAP – anti-panic function (from 31/61 to 81/81, from 81/86 to 81/111 on request)   FLU – installation situation regardless of the position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SEP – European profile   BIF – Biffar Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features	Freely turning outside thumbturn to prevent manipulations   Rotary damper   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 15684: 1.6.B.3.0.D.3.D   Suitable for locks as per EN 179/1125 (when using the anti-panic function (FAP))   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	4 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder fastening screw   4 CR2 lithium batteries   Assembly manual   Important information

## Versions

-  Profile
-  Cylinder length
-  Finish

## Options

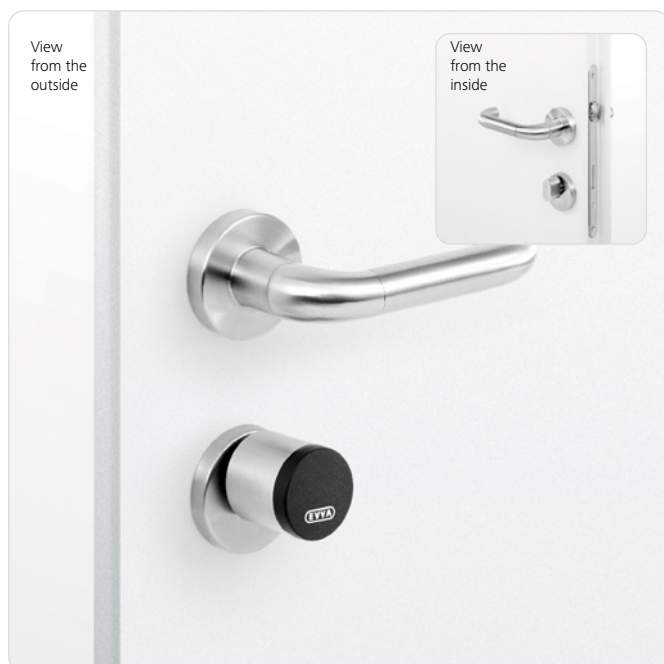
-  Technical installation situation
-  Elongated outside thumbturn axis
-  Cam
-  Additional certificate
-  Accessories

Versions and options see » **Page 64**  
 Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.DZ-S.[Outside cylinder length A/inside cylinder length I]. [Finish].[Option]
Example	E.A.PZ.DZ-S.31/31.NI

## AirKey cylinder | Thumbturn cylinder, round profile, SY-MO RKZ-S

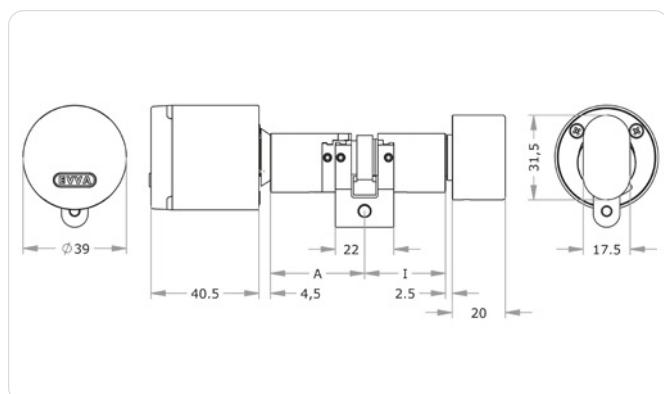


### Standards and guidelines



The AirKey thumbturn cylinder is the ideal solution for doors with maximum security requirements on the inside and outside, featuring external access control. The mechanical thumbturn guarantees a way out from the inside at

any time. For instance, the cylinders are suitable for solid panel doors and metal frame doors. AirKey cylinders are also suitable for existing doors in listed monuments as there is no need for drilling.

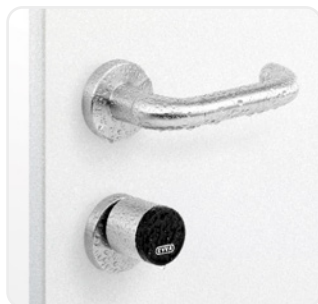


### Assembly tip

Assembly requires the special assembly tool

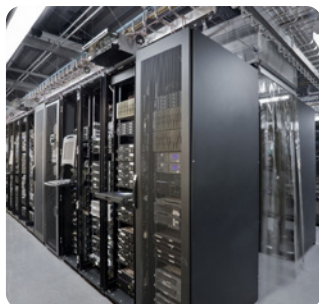
» Page 94

### Application examples



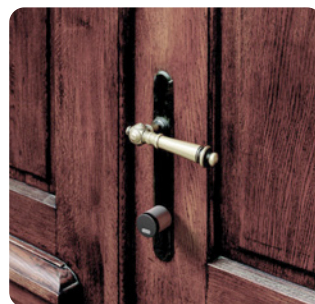
#### External doors on buildings

AirKey thumbturn cylinders are perfectly suitable for securing the main, side or back entrances of buildings.



#### Maximum security

AirKey thumbturn cylinders are particularly suitable for areas where security is paramount, such as server rooms.



#### Ideal for listed monuments

Ideally suitable for historically significant doors in which merely the cylinders can be replaced for reasons of monumental conservation.

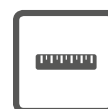
## Technical information

Cylinder length on the outside A in mm	31   36   41   46   + 5 mm ... Standard: $A + I \leq 92$ mm, special lengths: $A + I \geq 97$ mm
Cylinder length on the inside I in mm	K27   K31   K36   K41   K46   + 5 mm ... Standard: $A + I \leq 92$ mm, special lengths: $A + I \geq 97$ mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Thumbturn shape	X1K – inside thumbturn, mechanical (standard) BLIND – Blind module
Technical installation situation	FLU – Irrespective of installation position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SRP – Swiss round profile   BIF – Biffar Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EALS+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 15684: 1.6.B.3.0.D.3.D   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: $-20^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ (depending on the battery)   Humidity $< 90\%$ , non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder fastening screw   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Thumbturn shape



Technical installation situation



Elongated outside thumbturn axis



Cam



Additional certificate



Accessories

Versions and options

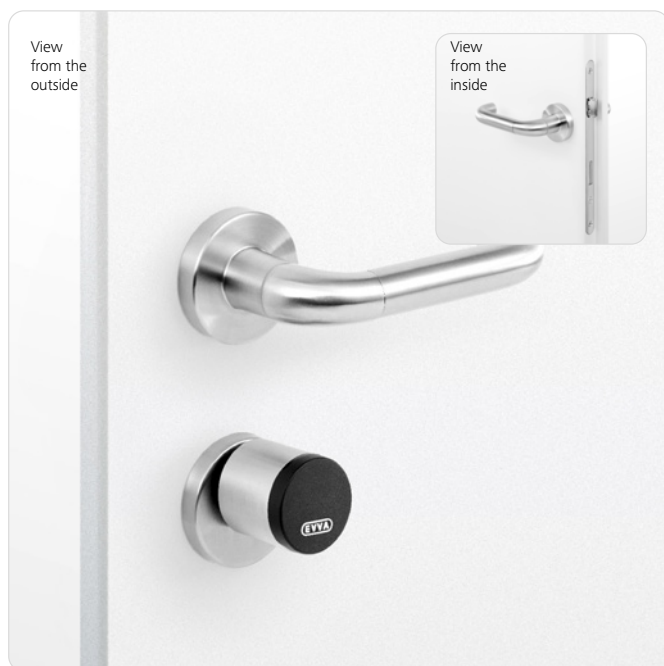
see » **Page 64**

Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.RKZ-S.[Outside cylinder length A/inside cylinder length I]. [Finish].[Option]
Example	E.A.PZ.RKZ-S.31/K27.NI

## AirKey cylinder | Half cylinder, round profile SY-MO RHZ-S

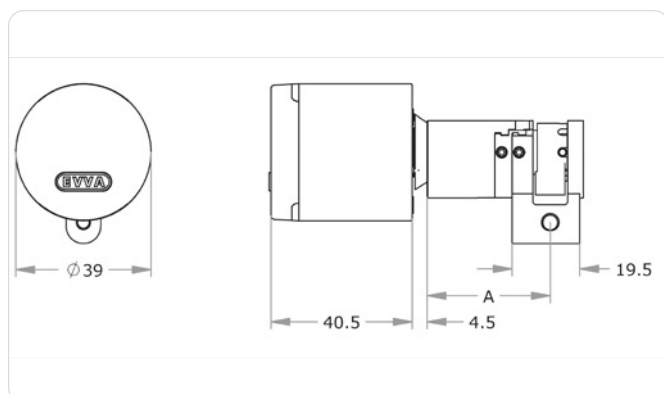


### Standards and guidelines



AirKey half cylinders are the ideal solution for doors or key switches requiring authorisation checks merely on one side, no cylinder on the inside and maximum security requirements on the inside and outside.

Additionally, AirKey half cylinders are perfectly suitable for existing doors, listed monuments as well as metal frame doors.



### Assembly tip

Assembly requires the special assembly tool

» Page 94

### Application examples



#### Key-Switches

AirKey half cylinders are also suitable for installation in key-switches. This allows to actuate various systems, e.g. garage doors. (Option FSR function).



#### Tubular safes

AirKey half cylinders are ideal for installation in tubular safes. (Option FSR function).



#### Control cabinet

AirKey half cylinders are also suitable for installation in control cabinets.

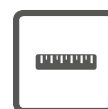
## Technical information

Cylinder length on the outside A in mm	31   36   41   46   + 5 mm ... Standard: A ≤ 92 mm, special lengths: A ≥ 97mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Technical installation situation	FLU – Irrespective of installation position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SRP – Swiss round profile   BIF – Biffar Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 15684: 1.6.B.3.0.D.3.D   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder fastening screw   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Technical installation situation



Elongated outside thumbturn  
axis



Cam



Additional certificate



Accessories

Versions and options

see » **Page 64**

Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.RHZ-S.[Outside cylinder length A].[Finish].[Option]
Example	E.A.PZ.RHZ-S.31.NI

## AirKey cylinder | Double cylinder, round profile, SY-MO RDZ-S

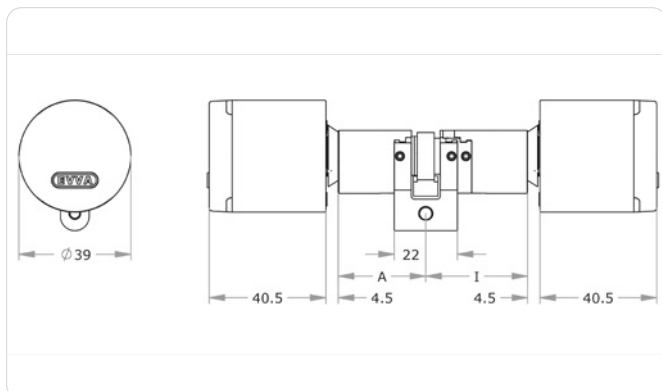


### Standards and guidelines



The AirKey double cylinder is the right security product if you require access control on both sides for doors with maximum security requirements on the inside and outside.

In addition, AirKey double cylinders are perfectly suitable for existing doors in listed monuments and metal frame doors.



### Assembly tip

Assembly requires the special assembly tool

» **Page 94**

### Application examples



#### Doors to restrict areas

AirKey double cylinders are suitable for reciprocally restricting two areas.



#### Permanent event logging

The AirKey cylinder for double-sided access was designed for areas requiring continuous logging of all entry and exit events.

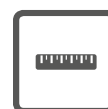
## Technical information

Cylinder length on the outside A in mm	31   36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lengths: A + I ≥ 97 mm For anti-panic function (FAP): A or I ≥ 61 mm
Cylinder length on the inside I in mm	31   36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lengths: A + I ≥ 97 mm For anti-panic function (FAP): A or I ≥ 61 mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Technical installation situation	FLU – Irrespective of installation position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SRP – Swiss round profile   BIF – Biffar Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 15684: 1.6.B.3.0.D.3.D   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	4 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder fastening screw   4 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Technical installation situation



Elongated outside thumbturn  
axis



Cam



Additional certificate



Accessories

Versions and options

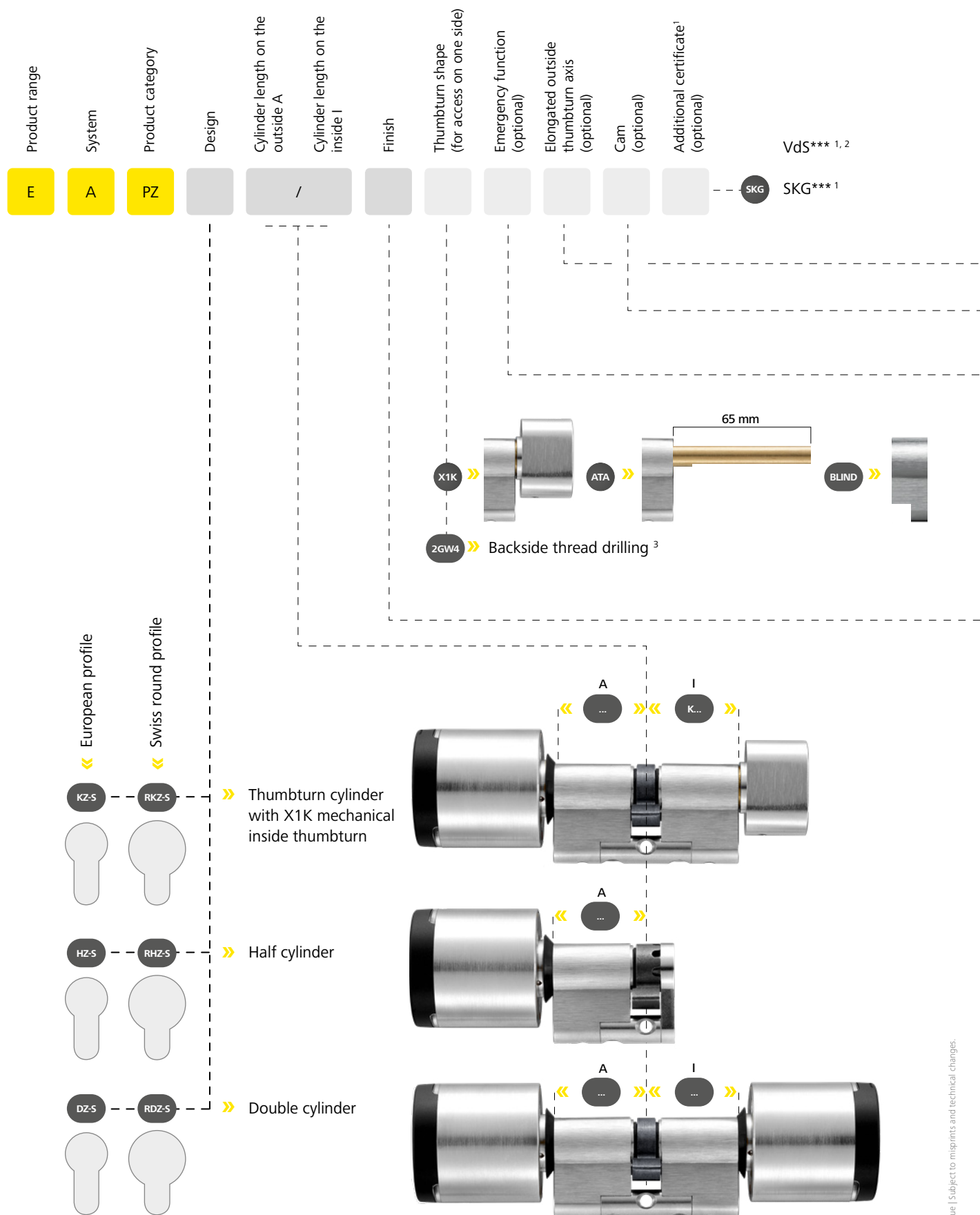
see » **Page 64**

Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.RDZ-S.[Outside cylinder length A/inside cylinder length I]. [Finish].[Option]
Example	E.A.PZ.RDZ-S.31/31.NI

# AirKey cylinder | Versions + options (Europe)

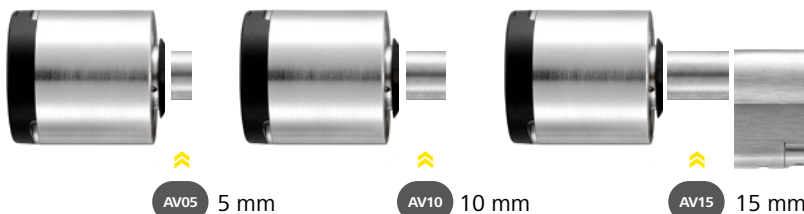


Cylinder illustrated as European profile  
Also available as Swiss round profile



### Elongated outside turn sleeve

- › This may be required for use with cylinders in escutcheons with integrated plug pulling protection.



Free-wheel function<sup>1</sup>



Anti-panic<sup>1</sup>



irrespective of installation position<sup>1</sup>



Cam latching<sup>1, 3</sup>

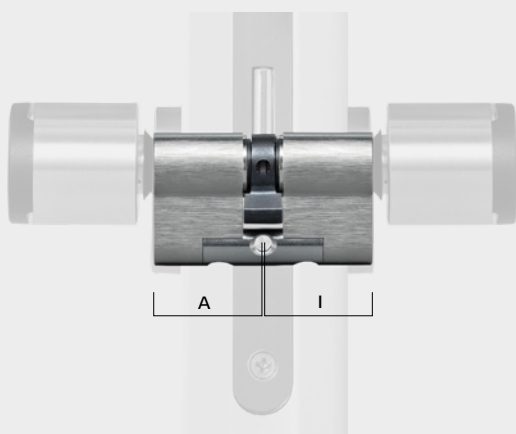


- › FZG – Free-wheel function for locks with multi-point locks (according to EN 179/1125 certificate)
- › FAP – with locking cam reset function for anti-panic locks
- › FLU - for installation of cylinders in a non-vertical position
- › FSR - for half cylinder with cam latching, independent of position



### Correct cylinder lengths

- › Cylinder lengths A and I are measured from the centre of the cylinder screw to the edge of the body. The selected cylinder length must not protrude from the escutcheon by more than 3 mm.



Standard:  $A + I \leq 92 \text{ mm}$ , special lengths:  $A + I \geq 97 \text{ mm}$



European profile\*



Swiss round profile\*



Biffar



Cogwheel cam 10



Cogwheel cam 18



Rittal® (31mm, 36mm)<sup>1,3</sup>

\*Must be listed for deviating cylinder profile



### Special locking cams and cogwheels

- › AirKey cylinders can also be equipped to suit special locks, such as multi-point locks.



Nickel



Polished nickel



Polished brass



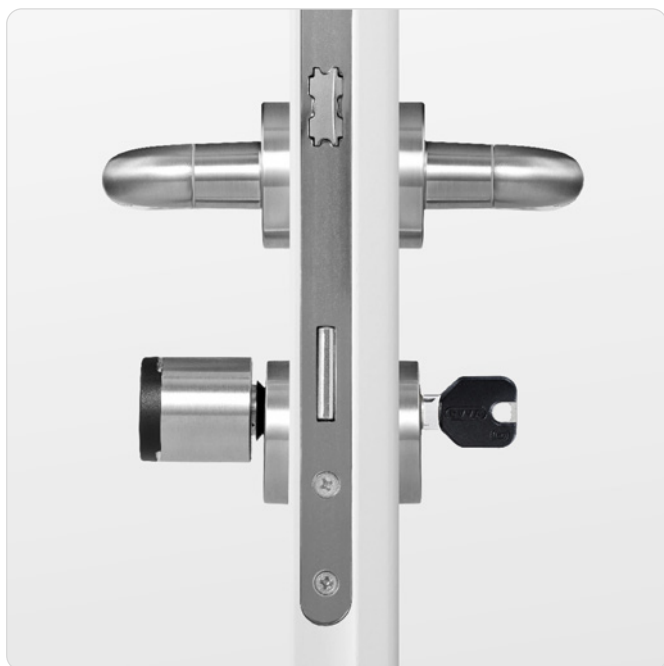
Brown patina\*



Black patina\*

\* With FZG/FAP, only the electronic and mechanical thumb-turns are colour-coded

## AirKey hybrid cylinder | Double cylinder euro profile SY-MO DZ-S

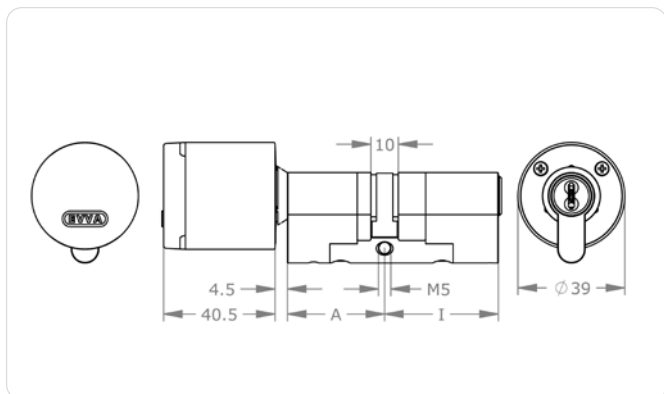


### Standards and guidelines



AirKey hybrid-cylinders with double-sided access are the ideal solution for doors with maximum security requirements on the inside and

outside and where the access control is required from both sides. Furthermore, the AirKey hybrid-cylinder is suitable for fire doors.



### Application examples



#### Increased burglary protection

The mechanical cylinder in the interior is externally protected against manipulation.



#### Secure playground

Funny cessation of fellow pupils in the school's playground is no longer possible with the hybrid cylinder.



#### Quick access in emergencies

For the fire brigade, the mechanical barrier in one direction passage doors is ensured with the hybrid cylinder.



#### Combi key

One key locks mechanics and electronics.

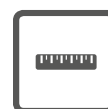
## Technical information

Mechanical inside	MCS (A/MCS)   4KS (A/4KS)   ICS (A/ICS)   EPS (A/EP5;A/EP6)   Akura44 (A/A44)
Cylinder length on the outside A in mm (electronic)	31   36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lenth: A + I ≥ 97 mm With Akura44: From 30 mm in 5 mm steps
Cylinder length on the inside I in mm (mechanic)	36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lenth: A + I ≥ 97 mm With Akura44: From 30 mm in 5 mm steps
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Technical installation situation	FLU – installation situation regardless of the position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SEP – European profile   BIF – Biffar   Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features AirKey	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Security features of mechanical system	see data sheet MCS (A/MCS)   4KS (A/4KS)   ICS (A/ICS)   EPS (A/EP5;A/EP6)   Akura44 (A/A44)
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 1303   EN 15684: 1.6.B.3.0.D.3.D   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Mandatory option	BSZ – External key override
Included components	AirKey hybrid cylinder   Cylinder fastening screw   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Technical installation situation



Elongated outside thumbturn axis



Cam



Additional certificate



Accessories

## Ordering

Product code	E.[A/System].PZ.DZ-S.[Cylinder length outside A/Cylinder length inside I].[Finish].[Technical installation situations].BSZ.[Option]
Example	E.A/4KS.PZ.DZ-S.31/36.NI.FLU.BSZ

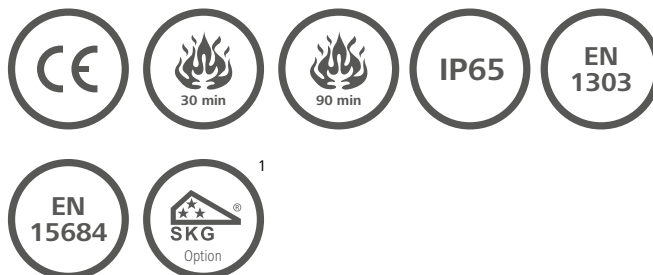
<sup>1</sup> In preparation

# AirKey hybrid cylinder |

## Double cylinder Swiss round profile SY-MO RDZ-S

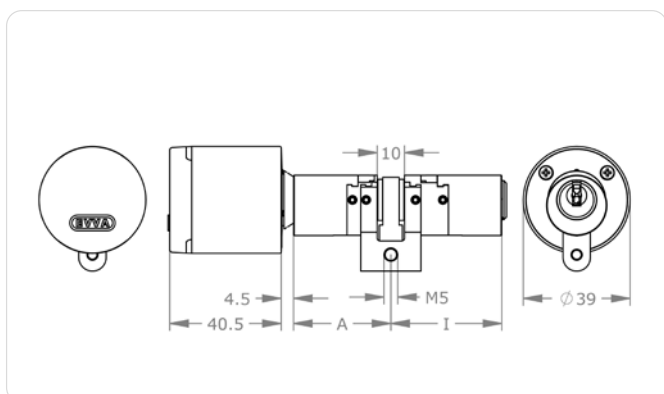


### Standards and guidelines



AirKey hybrid-cylinders with double-sided access are the ideal solution for doors with maximum security requirements on the inside and

outside and where the access control is required from both sides. Furthermore, the AirKey hybrid-cylinder is suitable for fire doors.



### Application examples



#### Increased burglary protection

The mechanical cylinder in the interior is externally protected against manipulation.



#### Secure playground

Funny cessation of fellow pupils in the school's playground is no longer possible with the hybrid cylinder.



#### Quick access in emergencies

For the fire brigade, the mechanical barrier in one direction passage doors is ensured with the hybrid cylinder.



#### Combi key

One key locks mechanics and electronics.

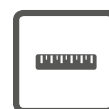
## Technical information

Mechanical inside	ICS (A/ICS)   4KS (A/4KS)
Cylinder length on the outside A in mm (electronic)	31   36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lengths: A + I ≥ 97 mm
Cylinder length on the inside I in mm (mechanic)	36   41   46   + 5 mm ... Standard: A + I ≤ 92 mm, special lengths: A + I ≥ 97 mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass   PB – brown patina   PS – black patina
Technical installation situation	FLU – installation situation regardless of the position
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cam	SRP – Swiss round profile   BIF – Biffar   Z10 – 10 cogwheel cams   Z18 – 18 cogwheel cams
Additional certificate	SKG – SKG***
Security features AirKey	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Drilling protection   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Security features of mechanical system	see data sheet 4KS (A/4KS)   ICS (A/ICS)
Standards and guidelines	CE tested   EN 1634: 30 minutes   EN 1634: 90 minutes   IP65 protection   EN 1303   EN 15684: 1.6.B.3.0.D.3.D   SKG***
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles as per EN 15684   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Mandatory option	BSZ – External key override
Included components	AirKey hybrid cylinder   Cylinder fastening screw   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Profile



Cylinder length



Finish

## Options



Technical installation situation



Elongated outside thumbturn axis



Cam



Additional certificate



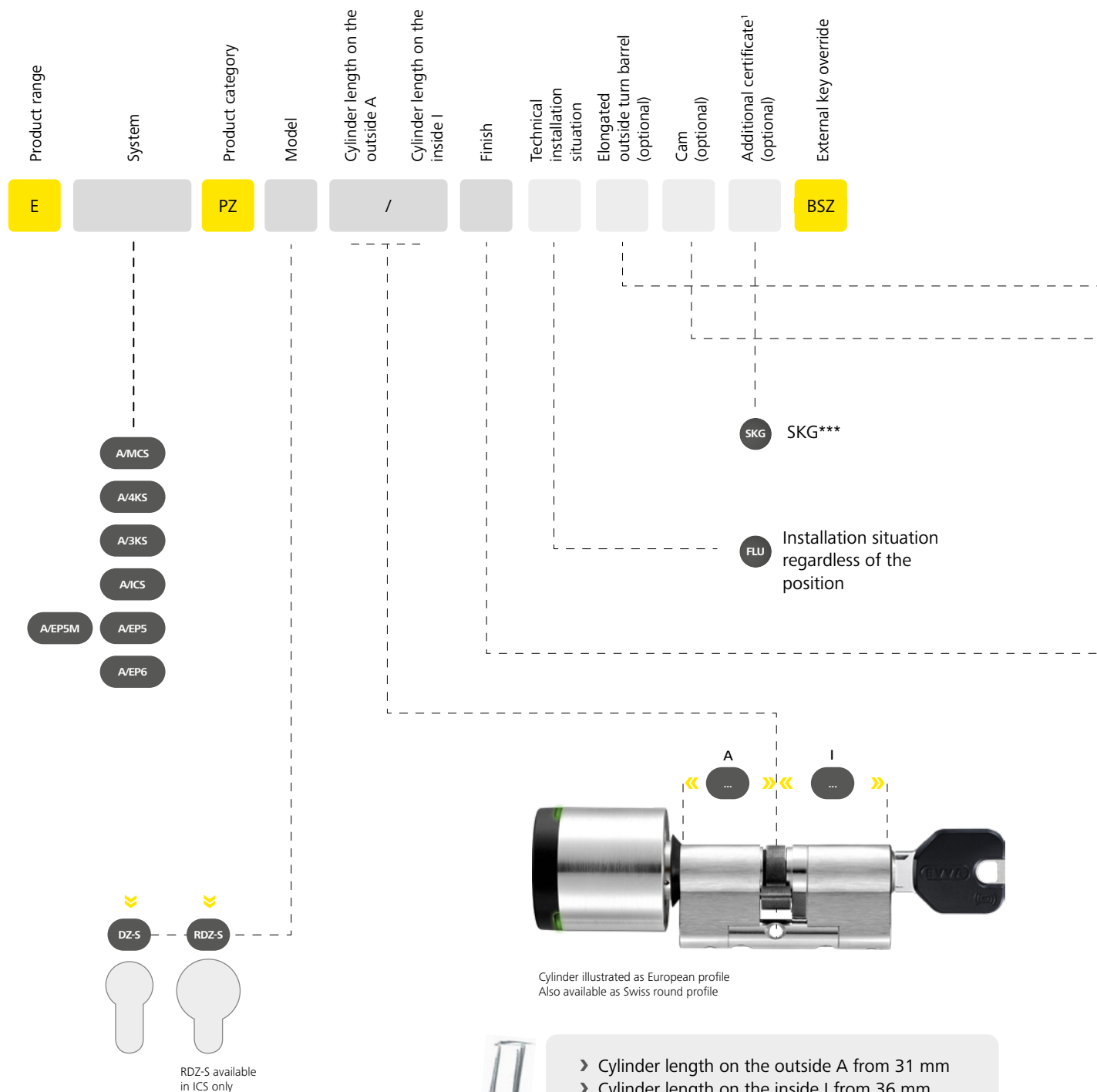
Accessories

## Ordering

Product code	E.[A/System].PZ.RDZ-S.[Cylinder length outside A/Cylinder length inside I].[Finish].[Technical installation situations].BSZ.[Option]
Example	E.A/4KS.PZ.RDZ-S.31/36.NI.FLU.BSZ

<sup>1</sup> In preparation

## AirKey cylinder | Variants and options (hybrid)

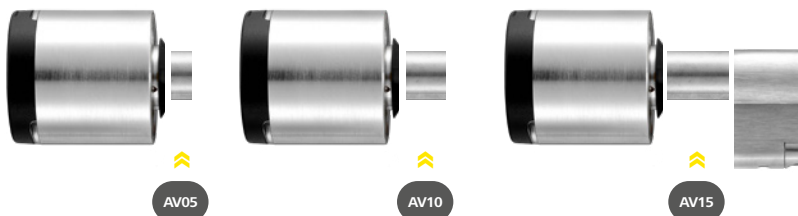


- › Cylinder length on the outside A from 31 mm
- › Cylinder length on the inside I from 36 mm
- › in 5mm intervals



### Elongated outside turn barrel

- › This may be required for use with cylinders in escutcheons with plug pulling protection.



SEP



European profile\*

SRP



Round profile\*

BIF



Biffar

Z10



Cogwheel cam 10

Z18



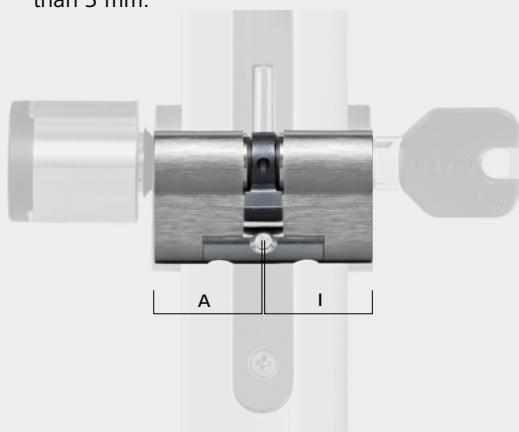
Cogwheel cam 18

\*Must be listed for deviating cylinder profile



### Correct cylinder lengths

- › Cylinder lengths A and I are measured from the centre of the cylinder screw to the edge of the housing. The selected cylinder length must not protrude from the escutcheon by more than 3 mm.



Standard:  $A + I \leq 92 \text{ mm}$ , special length:  $A + I \geq 97 \text{ mm}$



### Special locking cams and cogwheels

- › AirKey cylinders can also be equipped to suit special locks, such as multi-point locks.

NI



Nickel

NP



Polished nickel

MP



Polished brass

PB



Brown patina\*

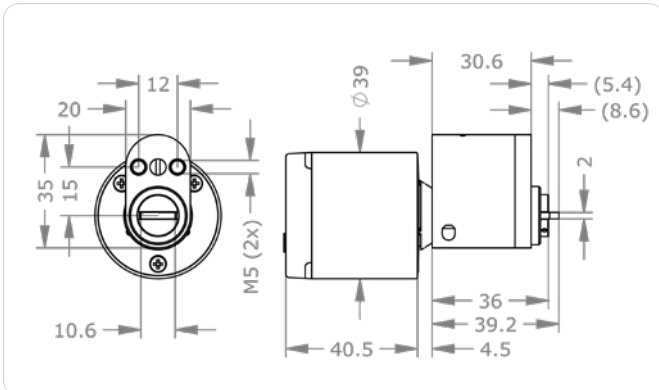
PS



Black patina\*

\* With FZG/FAP, only the electronic and mechanical thumb-turns are colour-coded

## AirKey cylinder | Scandinavian oval cylinder SKA



### Scandinavian locks with one-sided authorisation check

AirKey oval cylinders are ideal for doors with Scandinavian locks on the outside.

## Product description

The AirKey oval cylinder is the optimal solution for doors with Scandinavian lock, where only one-sided authorisation

request is needed and additionally the highest safety level is required.



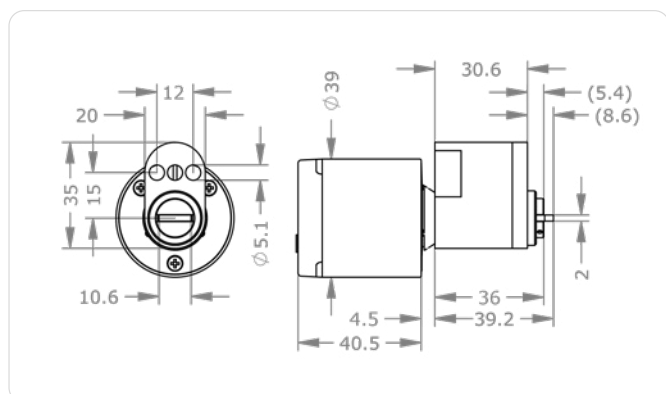
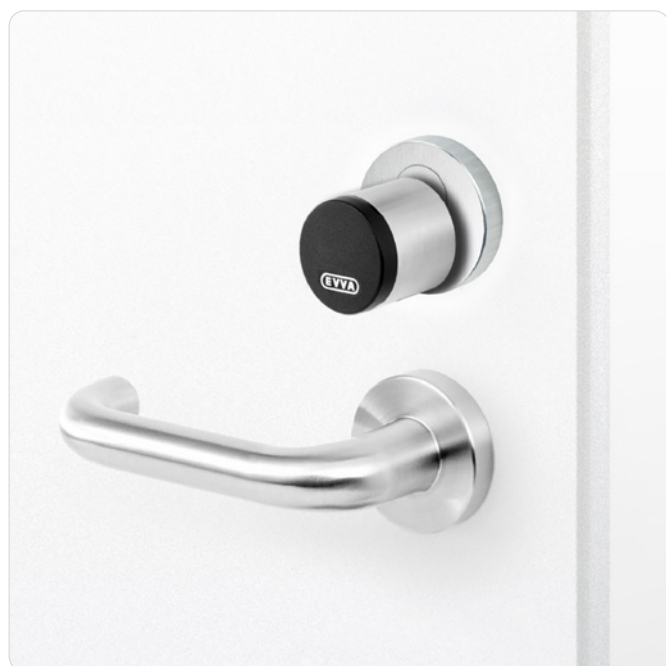
## Technical information

Finish	Ni – nickel   NP – polished nickel  MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection  EN15684  SSF 3522
Technical installation situation	Outside doors with maximum security requirements and subject to tough weather conditions. With FLU irrespective of installation position function as standard
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder  2 CR2 lithium batteries   Assembly manual   Important information   Cams enclosed by reseller

 Ordering

Product code	E.A.PZ.SKA.31.[Finish].[Option]
Example	E.A.PZ.SKA.31.NI

## AirKey cylinder | Scandinavian oval cylinder SKI



### Scandinavian locks with one-sided authorisation check

AirKey oval cylinders are ideal for doors with Scandinavian locks on the inside.

### Product description

The AirKey oval cylinder is the optimal solution for doors with Scandinavian lock, where only one-sided authorisation

request is needed and additionally the highest safety level is required.



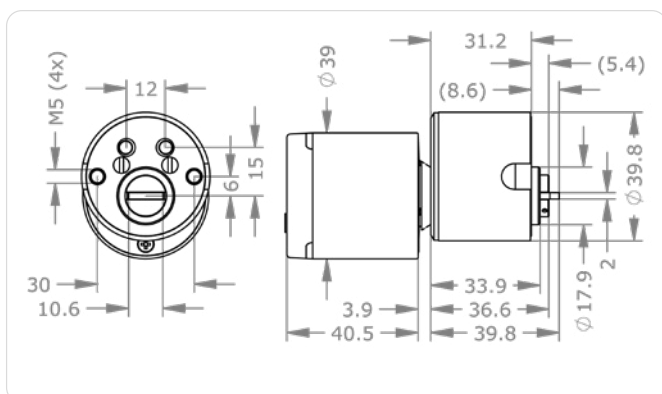
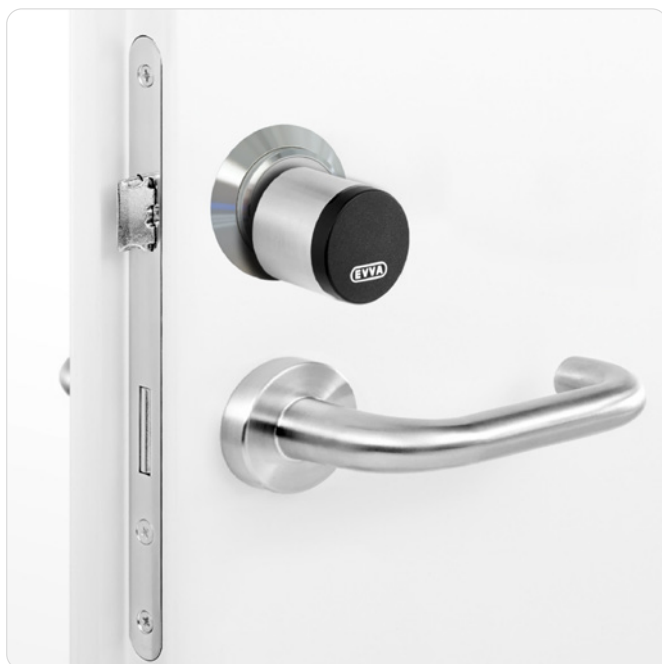
### Technical information

Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection   EN15684
Technical installation situation	Inside doors with maximum security requirements and subject to tough weather conditions. With FLU irrespective of installation position function as standard
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information   Cams enclosed by reseller

### Ordering

Product code	E.A.PZ.SKI.31.[Finish].[Option]
Example	E.A.PZ.SKI.31.NI

## AirKey cylinder | Scandinavian security cylinder AZ37



### Product description

The AirKey security outdoor cylinder is the optimal solution for doors with Scandinavian lock, where only one-sided authorisation request is needed

and additionally in the outdoor area the highest safety level is required.



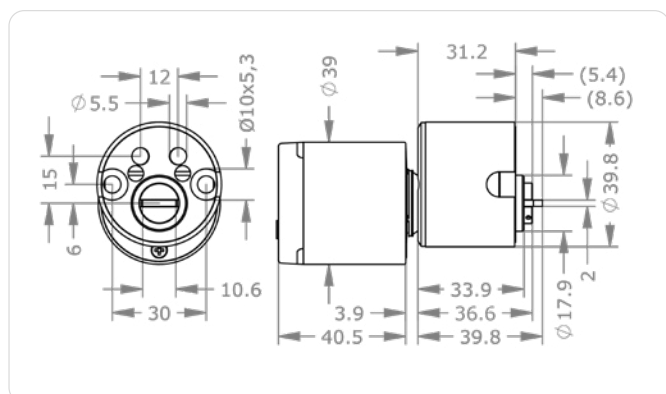
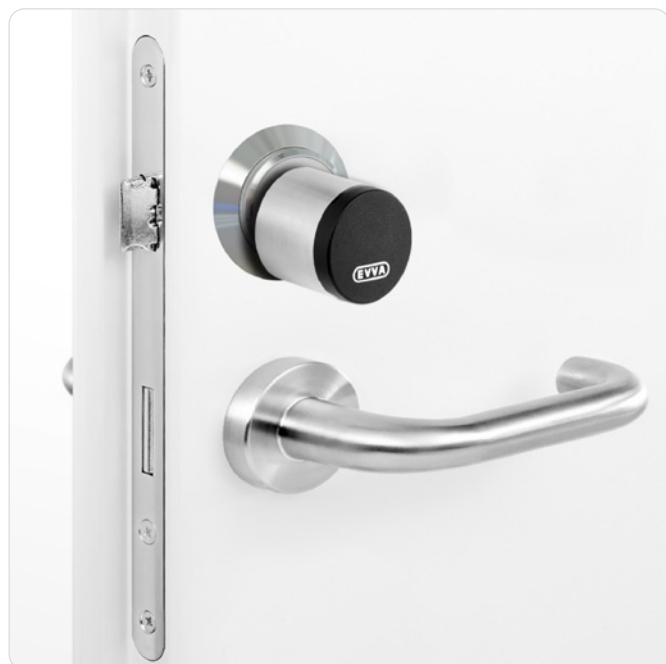
### Technical information

Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection   EN15684   SSF 3522
Technical installation situation	Outside doors with maximum security requirements and subject to tough weather conditions.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information

### Ordering

Product code	E.A.AI.AZ37.SEC.[Finish].[Option]
Example	E.A.AI.AZ37.SEC

# AirKey cylinder | Scandinavian security cylinder IZ37



## Product description

The AirKey security indoor cylinder is the optimal solution for doors with Scandinavian lock, where only one-sided authorisation request is needed

and additionally in the indoor area the highest safety level is required.



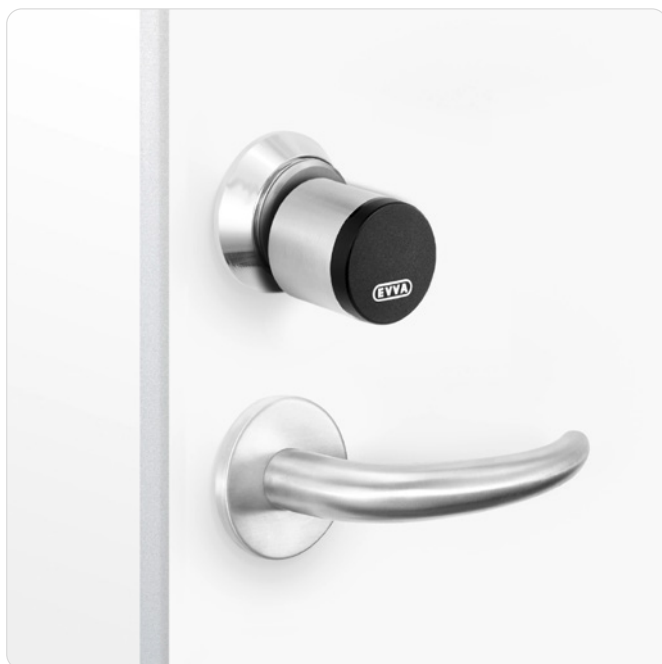
## Technical information

Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection   EN15684
Technical installation situation	Inside doors with maximum security requirements and subject to tough weather conditions.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information

## Ordering

Product code	E.A.AI.IZ37.SEC.[Finish].[Option]
Example	E.A.AI.IZ37.SEC.NI

## AirKey cylinder | Scandinavian security cylinder AZ38



### Product description

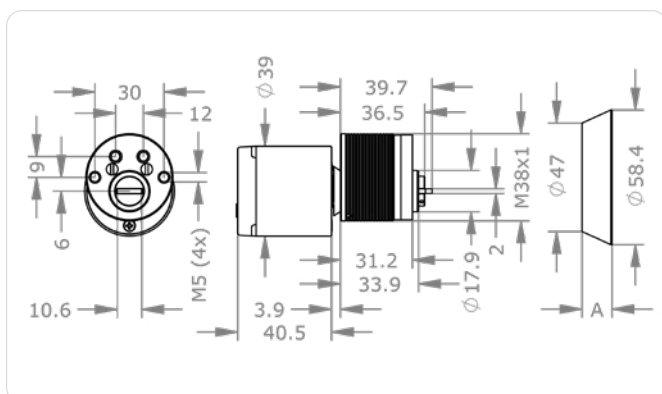
The AirKey security outdoor cylinder is the optimal solution for doors with Norwegian lock, where only one-sided authorisation request is needed

and additionally in the outdoor area the highest safety level is required.



### Technical information

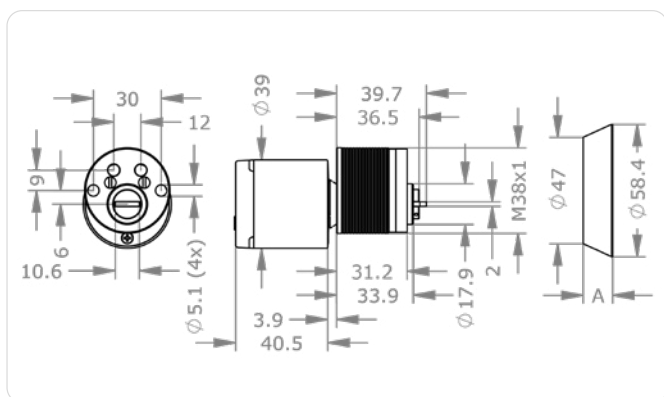
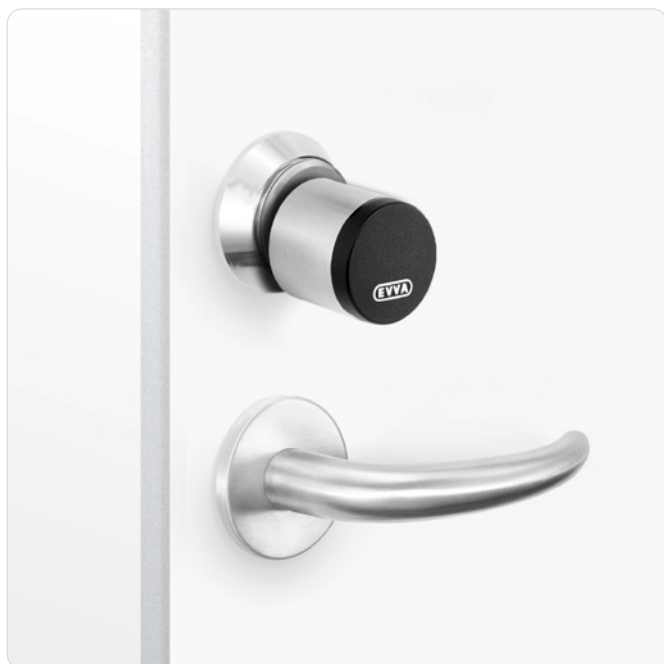
Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cylinder escutcheon for AZ38	R0N6 - 6mm   R0N8 - 8mm   R0N13 - 13mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection   EN15684   SSF 3522
Technical installation situation	Outside doors with maximum security requirements and subject to tough weather conditions.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: -20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information



### Ordering

Product code	E.A.AI.AZ38.NOR.[Finish].[Option]
Example	E.A.AI.AZ38.NOR.NI.AV05.R0N6

## AirKey cylinder | Scandinavian security cylinder IZ38



### Product description

The AirKey security indoor cylinder is the optimal solution for doors with Norwegian lock, where only one-sided authorisation request is needed

and additionally in the indoor area the highest safety level is required.



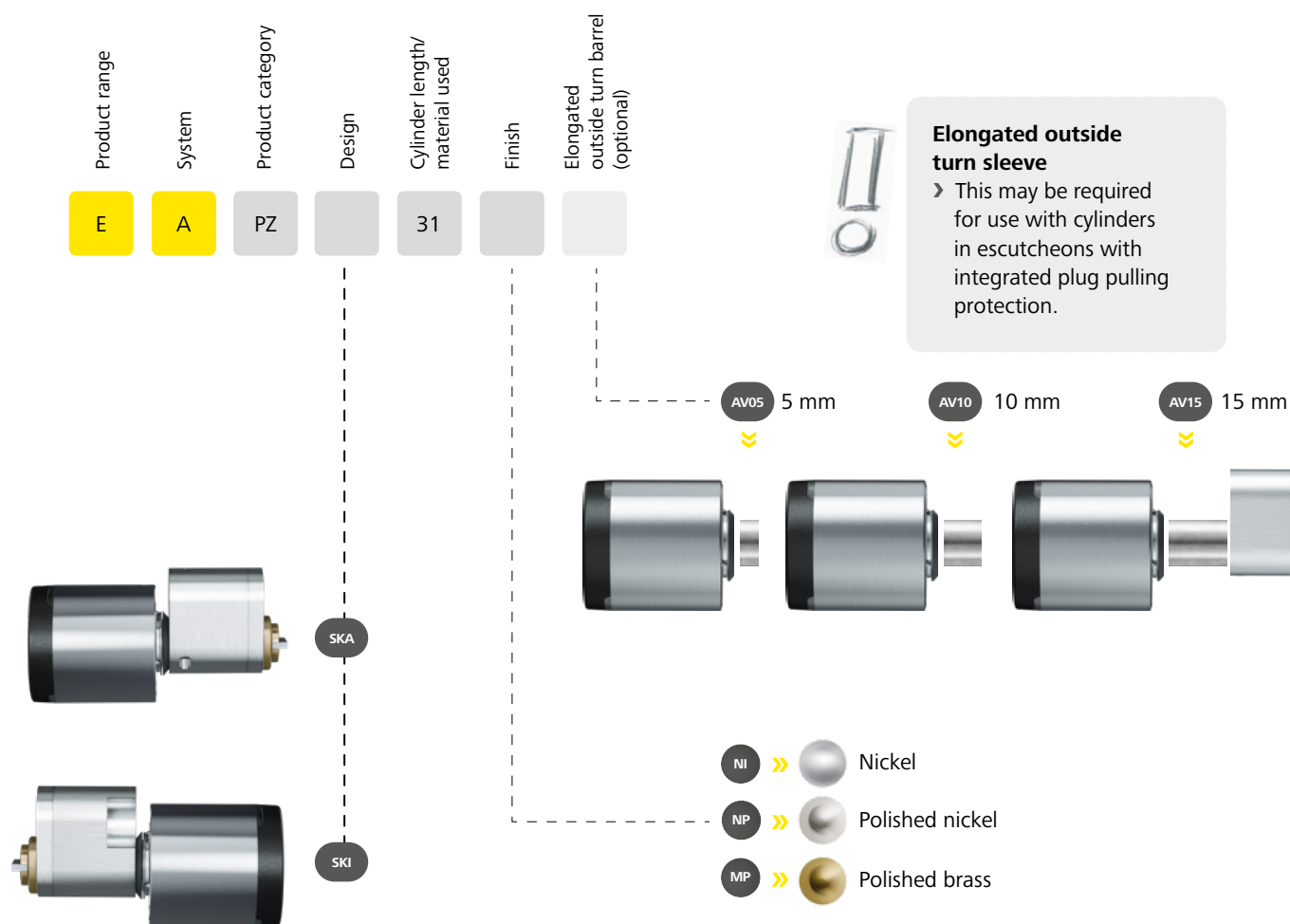
### Technical information

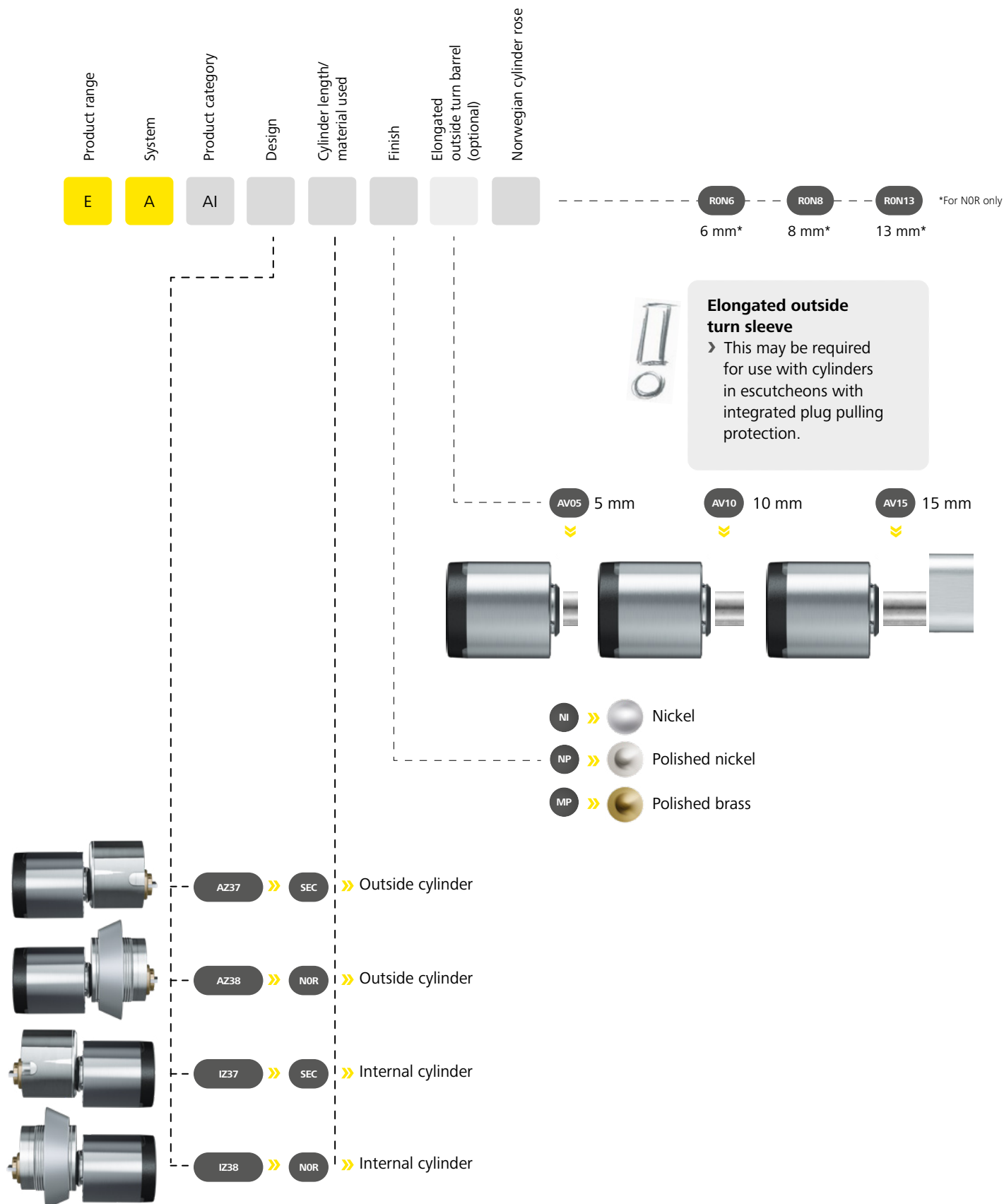
Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Cylinder escutcheon for AZ38	R0N6 - 6mm   R0N8 - 8mm   R0N13 - 13mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection   EN15684
Technical installation situation	Inside doors with maximum security requirements and subject to tough weather conditions.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: -20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information

### Ordering

Product code	E.A.AI.IZ38.NOR.[Finish].[Option]
Example	E.A.AI.IZ38.NOR.NI.AV05.R0N6

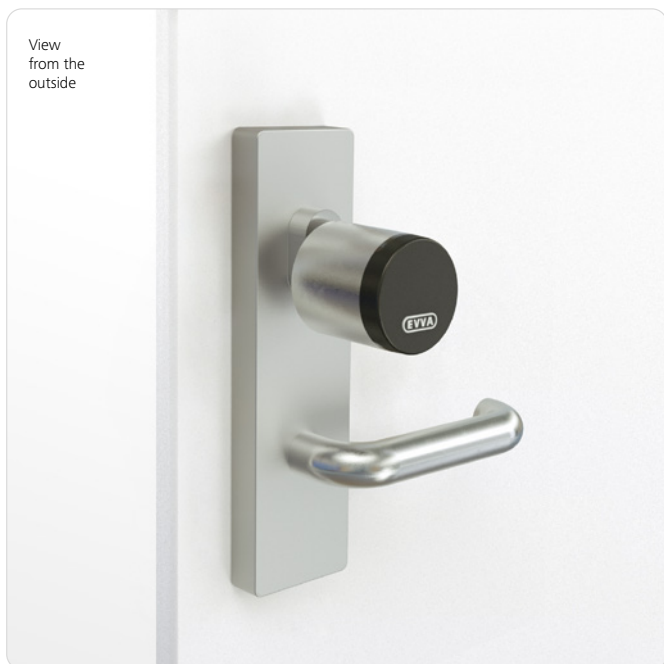
## AirKey cylinder | Variants and options (Scandinavia)





## AirKey cylinder | Australian profile cylinder A0

View  
from the  
outside



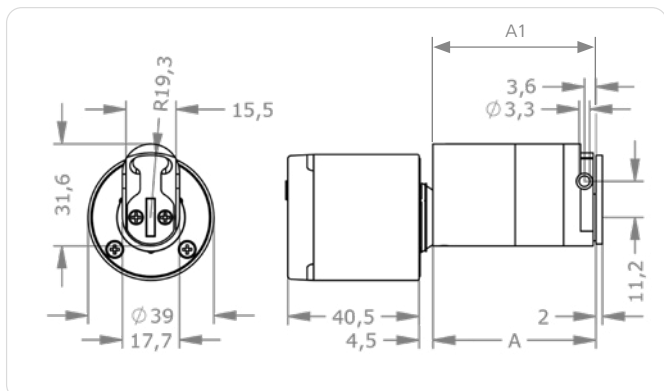
### Standards and guidelines



### Product description

AirKey oval cylinders are the ideal solution for doors or key switches with Australian OV profile as part of which authorisation checks are merely

required on one side and maximum indoor and outdoor security is paramount.



	A	A1
36	35,6	32
51	50,6	47
56	55,6	52
81	80,6	77

### Assembly tip

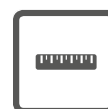
Assembly requires the special assembly tool

» Page 94

## Technical information

Cylinder length on the outside A in mm	36   51   56   81
Finish	NI – nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information   Cams enclosed by reseller

## Versions



Cylinder length



Finish

## Options



Elongated outside thumbturn axis



Accessories

Versions and options  
 see » **Page 84**  
 Accessories see » **Page 94**

## Ordering

Product code	E.A.PZ.A0V.[Outside cylinder length A].[Finish].[Option]
Example	E.A.PZ.A0V.36.NI

## AirKey cylinder | Outside cylinder AZ29 – RC1



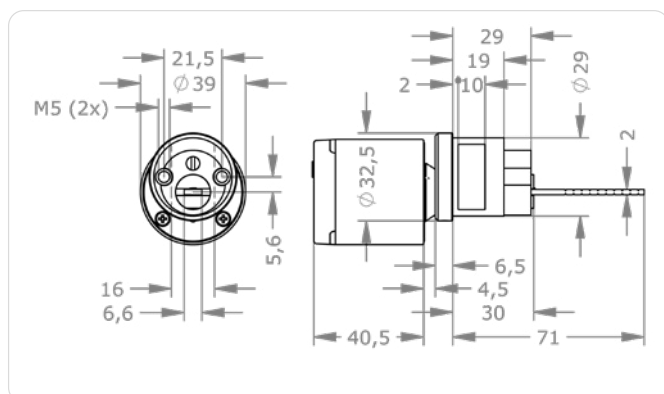
### Standards and guidelines



### Product description

AirKey rim cylinders (RC1) are the ideal solution for doors with Australian auxiliary locks as part of which authorisation

checks are merely required on one side and maximum indoor and outdoor security is paramount.



### Assembly tip

Assembly requires the special assembly tool

» Page 94

## Technical information

Cylinder length on the outside A in mm	Up to 71 mm
Finish	NI – nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. Suitable for installation in fire doors.
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   2 CR2 lithium batteries   Assembly manual   Important information

## Versions



Finish

## Options



Elongated outside thumbturn axis



Accessories

Versions and options

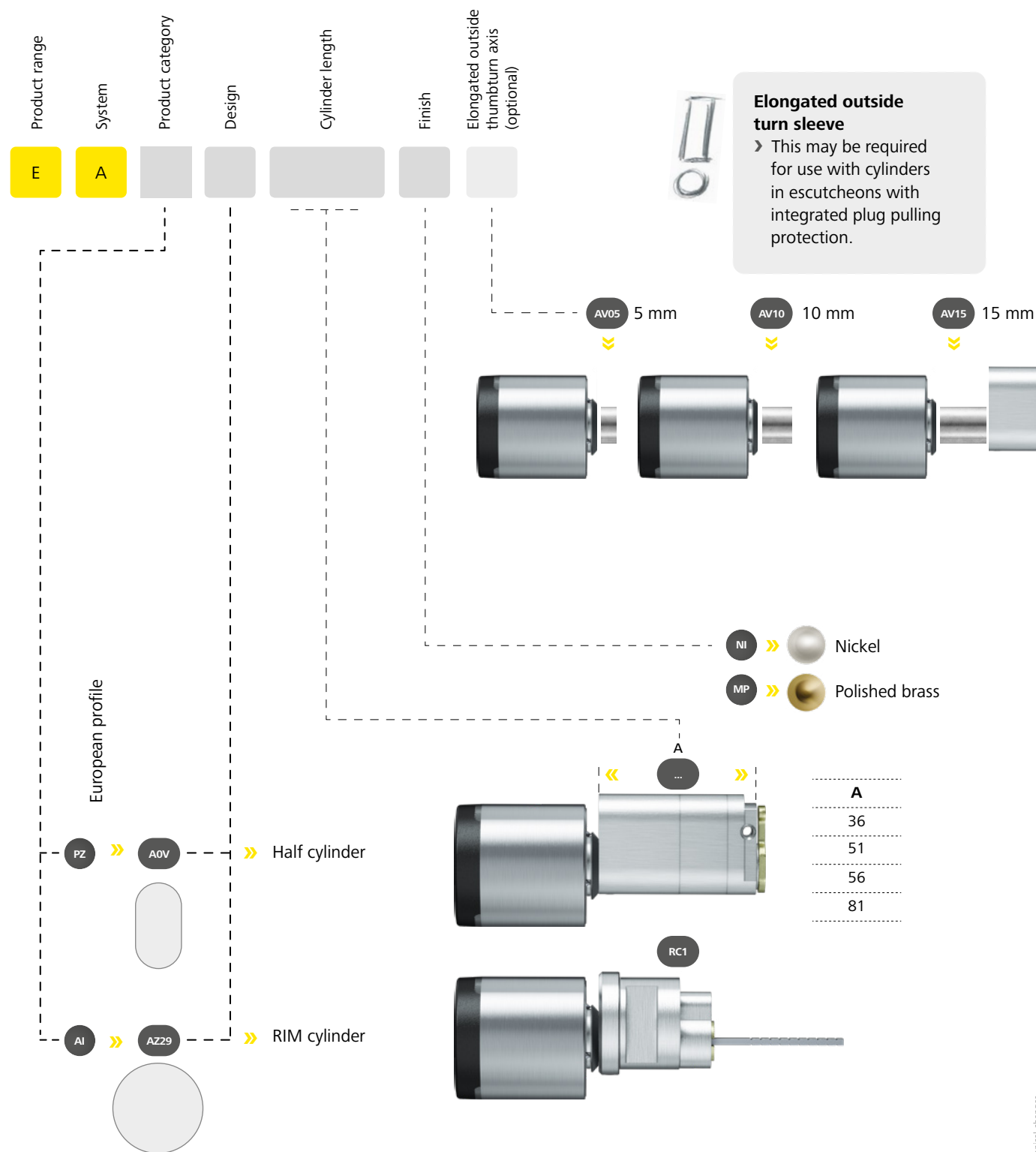
see » **Page 84**

Accessories see » **Page 94**

## Ordering

Product code	E.A.AI.AZ29.RC1.[Finish].[Option]
Example	E.A.AI.AZ29.RC1.NI

## AirKey cylinder | Variants and options (Australia)

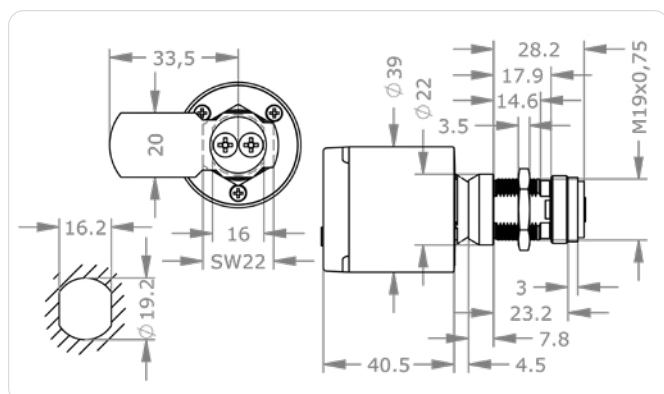


### Cam

- > The matching cam is supplied by the lock manufacturer



## AirKey cylinder | Cam lock MB19



### Product description

The AirKey Cam lock can be used both in metal and in wood installation situation in indoor and outdoor areas and

it is delivered with a thread (19 mm diameter) and a nut.



### Technical information

Cylinder length on the outside A in mm	23 mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Locking rotation	ST[A-H] - Locking rotation A-H
Cam	H[XX][A] – cam for sheet metal boxes and display cabinets   HB[XX][A] – cam for post box systems   HB01[A][B] – horizontal cam HB01[A][B]   OSN - Without cam
Security features	Fixed cam   Blocking thumbturn to prevent manipulation   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. With FVS fixed cam function as standard
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: -20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder mounting nut   2 CR2 lithium batteries   Assembly manual   Important information

### Application examples



#### Glass showcases

The AirKey Cam lock is ideal for installation in glass showcases.



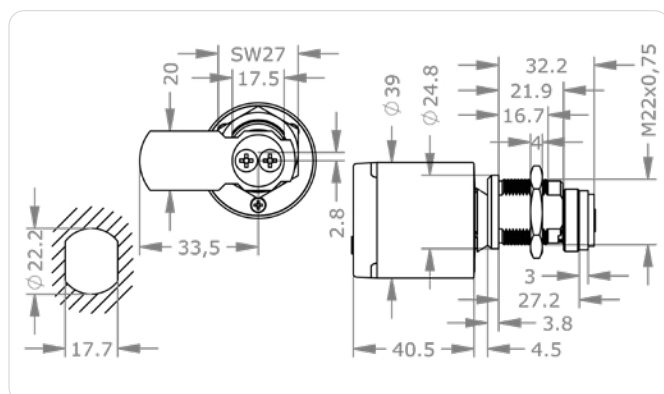
#### Letter box

For use in letter boxes indoors and outdoors.

### Ordering

Product code	E.A.HB.MB19.23.[Finish].FVS.[Option]
Example	E.A.HB.MB19.23.NI.FVS.AV05.STA.H7233

# AirKey cylinder | Cam lock MB22



## Product description

The AirKey Cam lock can be used both in metal and in wood installation situation in indoor and outdoor areas and

it is delivered with a thread (22 mm diameter) and a nut.



## Technical information

Cylinder length on the outside A in mm	27 mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Locking rotation	ST[A-H] - Locking rotation A-H
Cam	H[XX][A] – cam for sheet metal boxes and display cabinets   HB[XX][A] – cam for post box systems   HB01[A][B] – horizontal cam HB01[A][B]   OSN - Without cam
Security features	Fixed cam   Blocking thumbturn to prevent manipulation   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. With FVS fixed cam function as standard
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder mounting nut   2 CR2 lithium batteries   Assembly manual   Important information

## Application examples



### Safely in lockers

This Cam lock can reliably secure lockers in changing room systems.



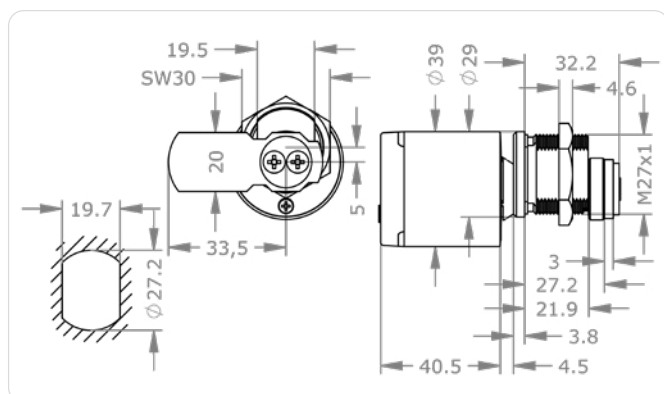
### Letter box

For use in letter boxes indoors and outdoors.

## Ordering

Product code	E.A.HB.MB22.27.[Finish].FVS.[Option]
Example	E.A.HB.MB22.27.NI.FVS.AV05.STA.H7233

## AirKey cylinder | Cam lock MB27



### Product description

The AirKey Cam lock can be used both in metal and in wood installation situation in indoor and outdoor areas and

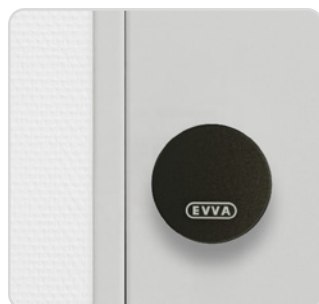
it is delivered with a thread (27 mm diameter) and a nut.



### Technical information

Cylinder length on the outside A in mm	27 mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass
Elongated outside thumbturn axis	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Locking rotation	ST[A-H] - Locking rotation A-H
Cam	H[XX][A] – cam for sheet metal boxes and display cabinets   HB[XX][A] – cam for post box systems   HB01[A][B] – horizontal cam HB01[A][B]   OSN - Without cam
Security features	Fixed cam   Blocking thumbturn to prevent manipulation   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. With FVS fixed cam function as standard
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: -20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder mounting nut   2 CR2 lithium batteries   Assembly manual   Important information

### Application examples



#### Distribution cabinet

Thanks to this Cam lock it is even possible to integrate distribution cabinets into the locking system.



#### Letter box

For use in letter boxes indoors and outdoors.

### Ordering

Product code	E.A.HB.MB27.27.[Finish].FVS.[Option]
Example	E.A.HB.MB27.27.NI.FVS.AV05.STA.H7233

# AirKey cylinder | Cam lock MB23CH



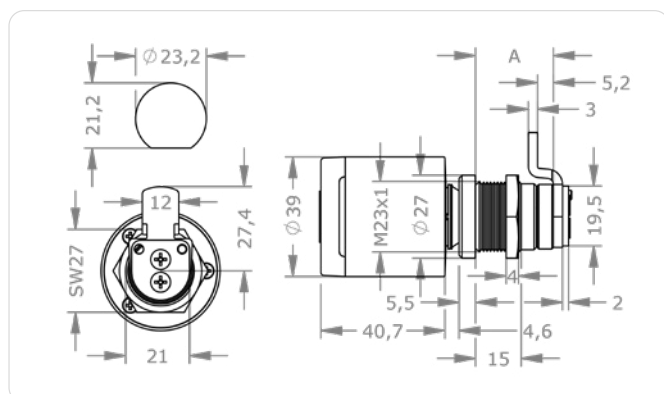
The AirKey Cam lock can be used both in metal and in wood installation situation in indoor and outdoor areas and

it is delivered with a thread (23 mm diameter) and a nut.



## Technical information

Cylinder length on the outside A in mm	23 mm
Finish	NI – nickel   NP – polished nickel   MP – polished brass
Cam	AV05 – 5 mm   AV10 – 10 mm   AV15 – 15 mm
Locking rotation	ST[A][B] (C-H through lever assembly)
Cylinder length	25 mm
Security features	Fixed cam   Blocking thumbturn to prevent manipulation   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Inside and outside doors with maximum security requirements and subject to tough weather conditions. With FVS fixed cam function as standard
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: –20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   Minimum backset 35 mm, IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	AirKey cylinder   Cylinder mounting nut   2 CR2 lithium batteries   Assembly manual   Important information



## Application examples



### Distribution cabinet

Thanks to this Cam lock it is even possible to integrate distribution cabinets into the locking system.



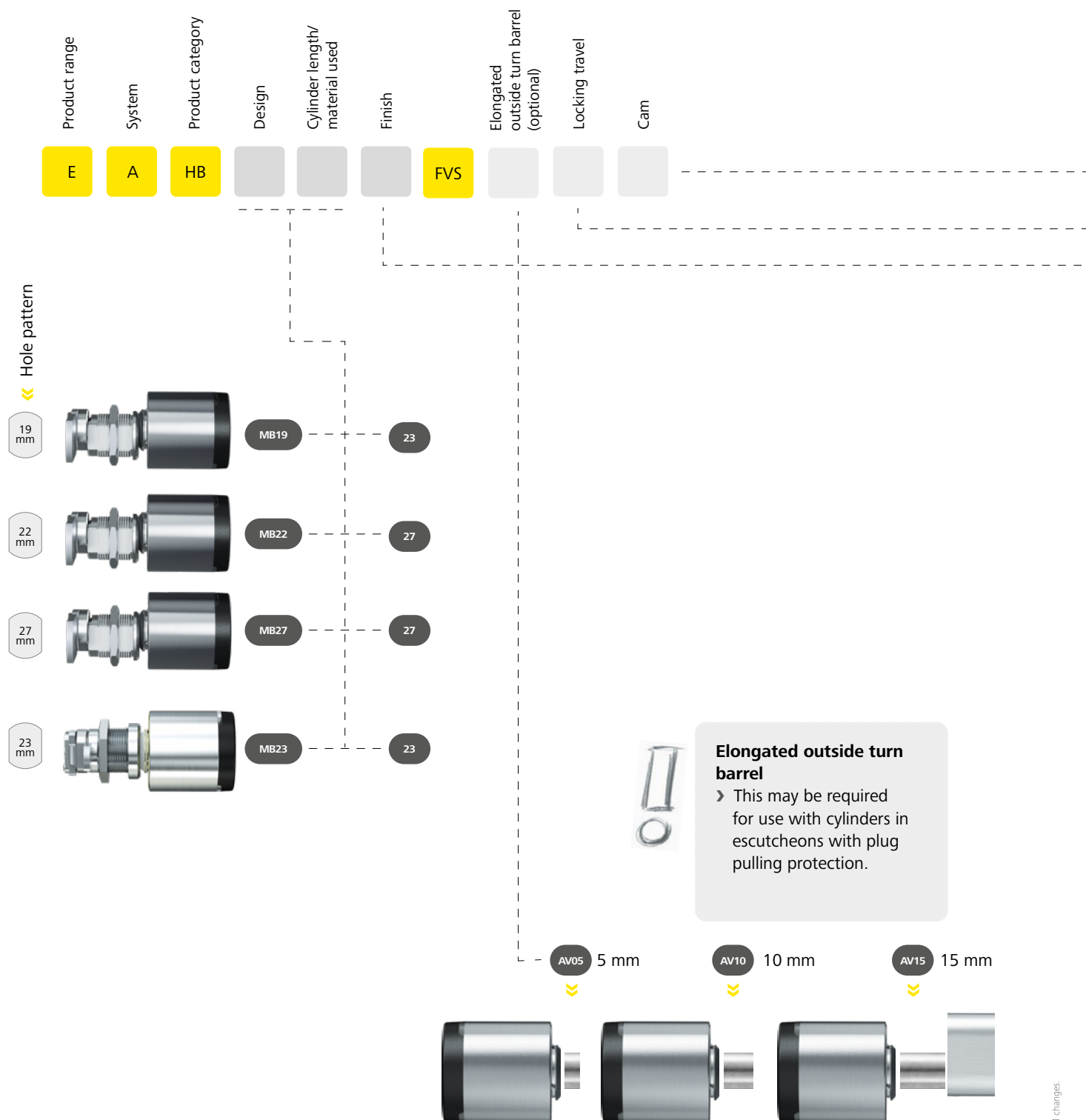
### Letter box

For use in letter boxes indoors and outdoors.

## Ordering

Product code	E.A.HB.MB23CH.27.[Finish].FVS.[Option]
Example	E.A.HB.MB23CH.27.NI.FVS.AV05.STA.H7233

## AirKey cylinder | Variants and options (cam lock)



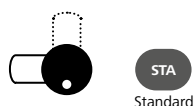
### EVVA cam range

- › The EVVA cam range from page 92 matches these cylinders
- › Standard cam: H7233
- › OSN - Without Cam



### Locking travel

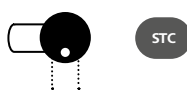
- › Standard locking travel STA
- Optional locking travel STB–STH



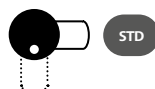
- › Locking travel from left upwards



- › Locking travel from right upwards



- › Locking travel from left downwards



- › Locking travel from right downwards

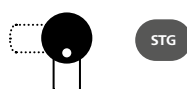
### Horizontal cam



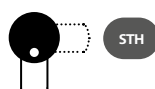
- › Locking travel from top to left



- › Locking travel from top to right



- › Locking travel from bottom to left

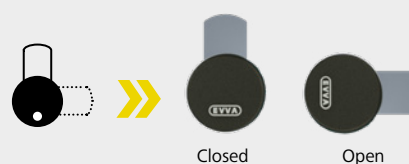


- › Locking travel from bottom to right

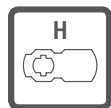
### Vertical cam

### Example

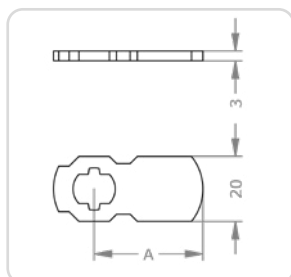
- › STF locking travel with vertical cam



# AirKey cylinder | Variants and options (cam lock)

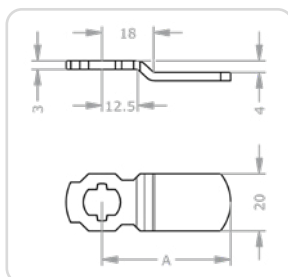


## Horizontal EVVA locking cams for sheet metal panel boxes and display cabinets.

**H72[A]**

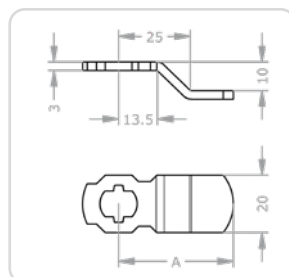
Cam length A in mm:

18 | 26 | 27 | 33 | 37 | 40 | +5 ... | 85

**H87[A]**

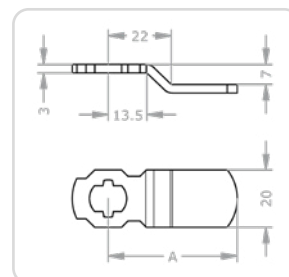
Cam length A in mm:

33 | 40 | 45 | 65

**H92[A]**

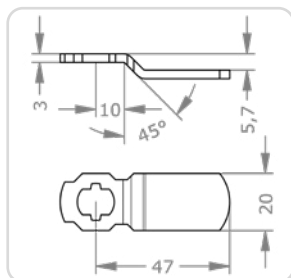
Cam length A in mm:

41 | 48 | 52

**H95[A]**

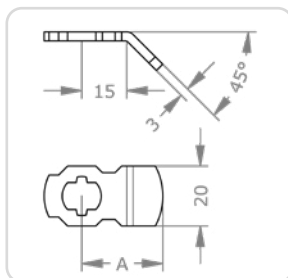
Cam length A in mm:

45 | 50

**H98[A]**

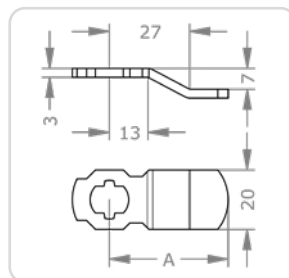
Cam length in mm:

47

**H89[A]**

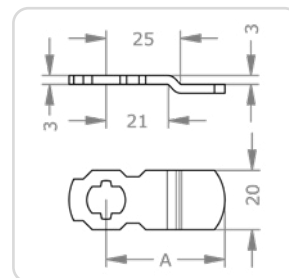
Cam length A in mm:

27

**H91[A]**

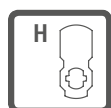
Cam length A in mm:

39 | 59 | 65

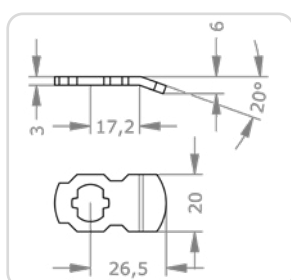
**H97[A]**

Cam length A in mm:

33 | 37 | 40 | 45 | 50 | 55 | 70

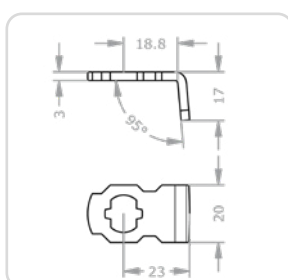


## Vertical EVVA locking cams for sheet metal panel boxes and display cabinets.

**H6326**

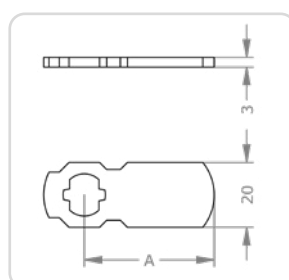
Cam length in mm:

26

**H6423**

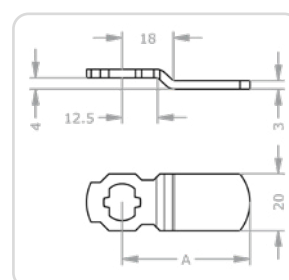
Cam length in mm:

23

**H73[A]**

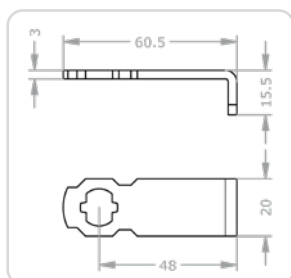
Cam length A in mm:

26 | 33 | 36 | 40 | +5 ... | 80

**H88[A]**

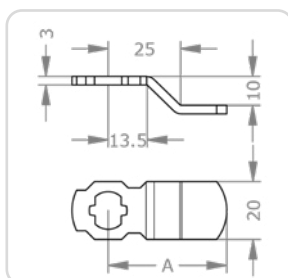
Cam length A in mm:

45 | 65

**H9048**

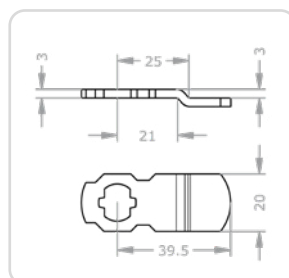
Cam length in mm:

48

**H94[A]**

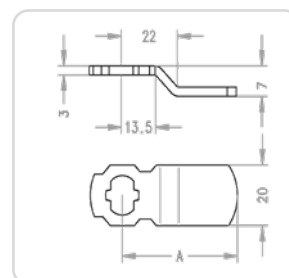
Cam length A in mm:

33 | 41 | 59

**H9939**

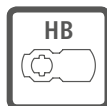
Cam length in mm:

39

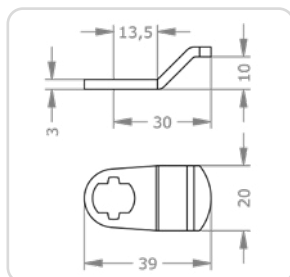
**H96[A]**

Cam length A in mm:

33 | 45 | 50

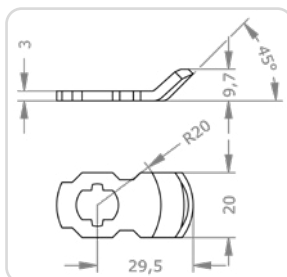


**Horizontal EVVA locking cams for post boxes and other potential applications.**



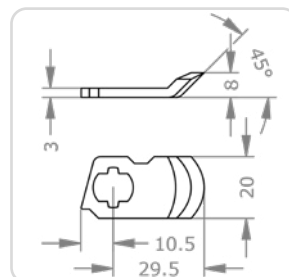
**HB0230**

Cam length in mm:  
30



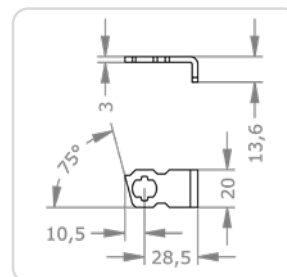
**HB0329**

Cam length in mm:  
29



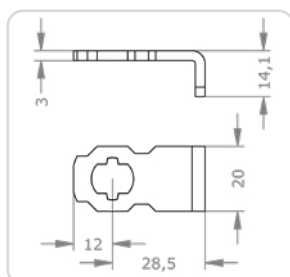
**HB0429**

Cam length in mm:  
29



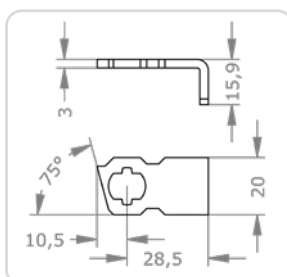
**HB0628**

Cam length in mm:  
28



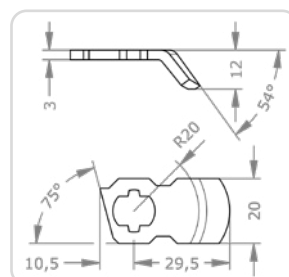
**HB0728**

Cam length in mm:  
28



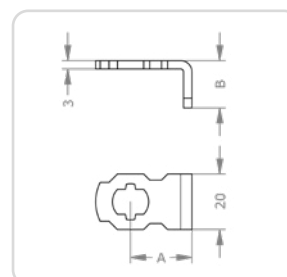
**HB0828**

Cam length in mm:  
28



**HB1029**

Cam length in mm:  
29



**HB[A][B]**

Cam length [A][B] in mm:  
[22][14] | [22][17] | [22][22] |  
[28][17] | [28][22]

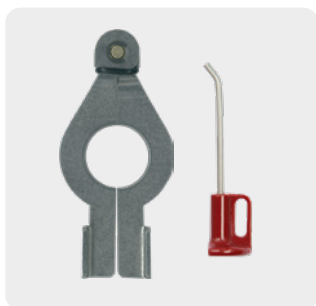
## AirKey cylinder | Accessories



### Assembly tool for AirKey cylinders

This special tool is required to assemble and disassemble the electronic thumbturn and to replace the batteries.

Product code	E.ZU.PZ.ZW01
--------------	--------------



### Set of 2 assembly tools for AirKey cylinder and padlock

This special tool is required to assemble and disassemble the electronic thumbturn and to replace the batteries as well as specifically to assemble the padlock. It also features a locking pin to block the cylinder plug.

Product code	E.ZU.PZ.ZWD
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### Emergency power device

If batteries have not been replaced in due time despite the warnings, you require an emergency power device to provide AirKey cylinders with power.

Product code	E.ZU.ALLG.NG3
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### Battery replacement set

Battery replacement set incl. 10 sealing gaskets (1x PZ9, 1x PZ7, 2x CR2)

Produktcode	E.TE.PZ.PZ14
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Sample illustration

### Set of spare batteries

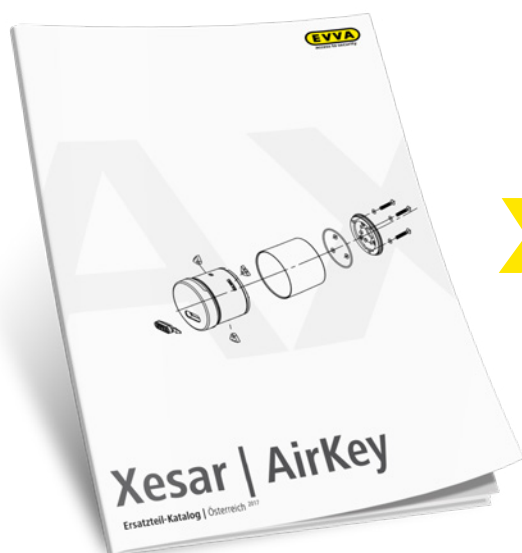
Set of spare batteries consisting of 10 CR2 batteries.

Product code	E.ZU.ALLG.B-CR2.M10
--------------	---------------------



### IP65 padlock gasket

Product code	E.TE.HA.HA1
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### Do you need spare parts?

Our comprehensive spare parts range is available in the spare parts catalogue on the EVVA Partner portal at **[partner.evva.com](https://partner.evva.com)**



# AirKey padlock



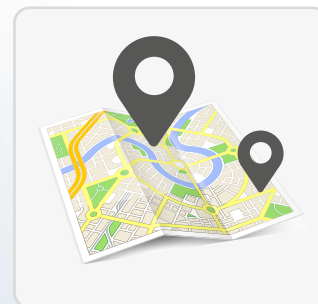
## Barrier

Reliable protection of barriers with schedule-based access control – possible with the AirKey padlock. And relevant keys are sent directly to your smartphone.



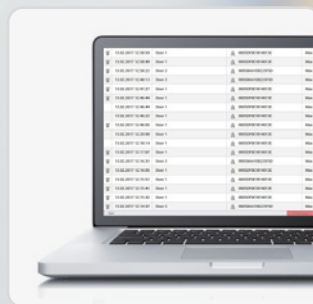
## Attaching chains

The padlock is also highly suitable for lock chains. Once it has been attached it is theft-proof and cannot be removed by accident.



## Geotagging

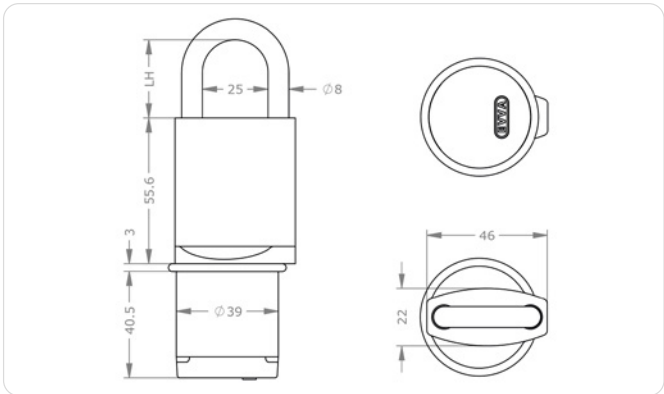
AirKey padlocks can also be easily located using the AirKey app thanks to location-based information.



## Protocols

You always have an overview of the padlock in the online administration. When and who unlocked it. You can also assign access authorisations in no time using this tool.

# AirKey padlocks | HM24-S



## Application examples



**Depot security**  
Hasp and padlock secure depot and cellar doors.



**Server cabinet**  
Reliable protection for restricted areas.

### Product description

The HM24-S AirKey padlock with hardened steel shackle is suitable to protect barrier systems, shutters, depots and archiving containers.

The padlocks can be easily and also retrospectively integrated into AirKey locking systems. It goes without saying that each locking and unlocking process is logged in the online administration.



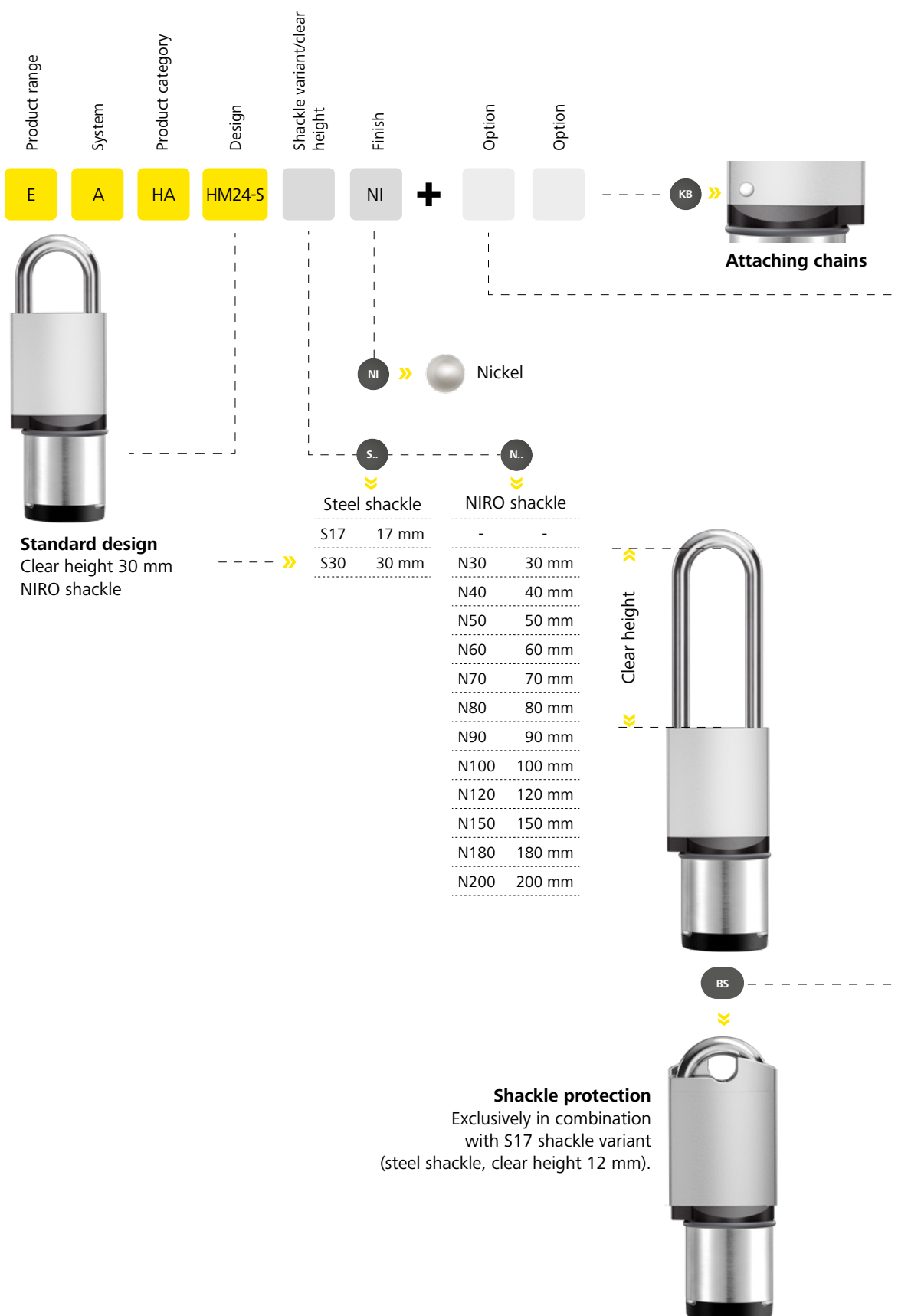
### Technical information

Niro/steel shackle variant, clear height in mm	S17   S30   N30   N40   N50   N60   N70   N80   N90   N100   N120   N150   N180   N200
Finish	NI – nickel
Optional security features	BS – shackle protection, clear width 12 mm   KB - Chain fixation
Security features	Freely turning outside thumbturn to prevent manipulations   Rated brake point on the outside thumbturn   Engages only if authorised   Event log   Plug pulling protection   Integrated EAL5+ certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified
Technical installation situation	Recommended for stationary use
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Battery	2 CR2 lithium batteries   Up to 30,000 cycles
Signals	Visual + audible
Conditions of use	Ambient temperature range: -20°C to +55°C (depending on the battery)   Humidity < 90 %, non-condensing   For 100,000 cycles   IP65 protection
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   Connection to emergency power device
Included components	Padlock   Seals   Batteries   Not included: required assembly tool E.ZU.PZ.ZWD

### Ordering

Product code	E.A.HA.HM24-S.[S/N clear height in mm]. [Finish].[Option]
Example	HM24-S. AirKey padlock with Niro shackle, clear height 30 mm, nickel-plated finish: E.A.HA.HM24-S.N30.NI

## Versions and options





# AirKey wall reader

AirKey online  
administration

AirKey app &  
Accessories

AirKey cylinder

AirKey padlocks

AirKey wall reader

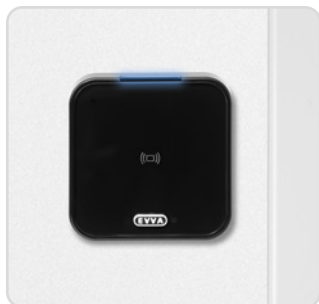
# AirKey wall reader | Benefits

## Design



### Sophisticated design

Resistant with high-quality glass front that perfectly integrates into any environment thanks to its slim installation dimensions.



### Wall readers communicate

Visual and audible feedback for successful authorisation, rejection or maintenance task notifications.



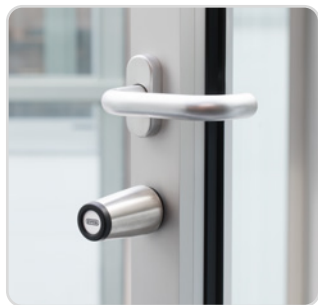
### 18 colour combinations

Glass front panel and frame available in white, silver and black – frame in satin or polished finish.

### Additional benefits

- › Visual and acoustic status and function indicator
- › Continuously lit RFID symbol

## Function



### Actuate locking elements

From electrically operated locks to motorised cylinders – AirKey wall readers can actuate the most diverse locking elements.



### Compatible with control elements

The simplest way to control automatic sliding doors, barrier systems and lifts.



### RS485 interface

The RS485 interface can be used to connect the wall reader directly to a lift control system, for example.

### Additional benefits

- › With blacklist function
- › Last 1,000 events saved in an event log

## Technology

### Additional benefits

- › Distances of up to 100 m between wall reader and control unit
- › ECDSA and AES encryption



### Whenever you need them and wherever you are.

With IP65 protection, AirKey wall readers are suitable for the fiercest weather conditions.



### High level of protection against tampering

The control unit can be securely installed indoors. The wall reader offers no targets for manipulation.



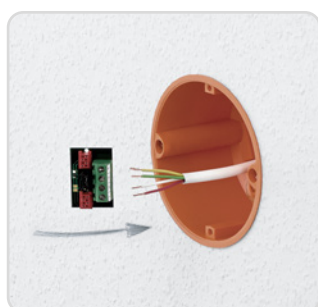
### Actuation by third-party systems

Confirmation of electrically operated unlocking with potential-free contact.

## Assembly

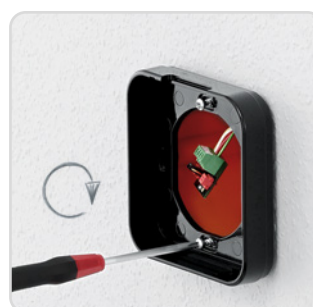
### Additional benefits

- › Easy and fast to assemble
- › Practical bus system
- › Frames available for flush or surface mounting
- › No special assembly tools required
- › Supported by assembly videos and assembly manuals



### 1. Connect the plug-in PCB

One wall reader can be connected to one control unit.



### 2. Flush-mounted frame is screwed onto the flush-mounted socket

A surface-mounted frame is also optionally available.



### 3. Connect the wall reader

Connect the wall reader cable to the plug-in PCB and insert the wall reader into the frame.

# AirKey wall reader



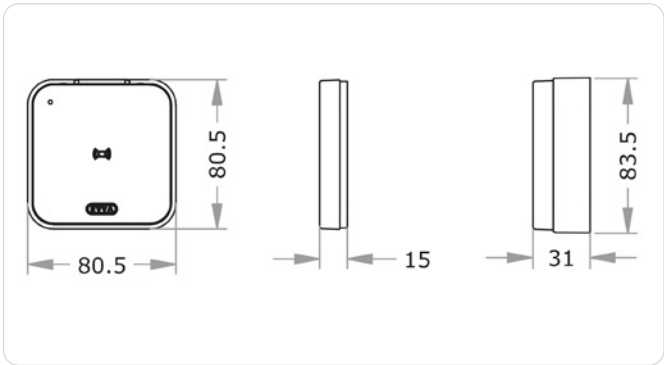
## Standards and guidelines



The AirKey wall reader in combination with the wall reader control unit is suitable for controlling electronic locking elements in doors of all kinds. For example in sliding doors or swing doors, as electronic

door openers, in lifts and in electronic gate systems.

In this process, AirKey wall readers are ideally suitable for indoor and outdoor use.



Left: front view of wall reader for flush installation

Centre: side view of wall reader for flush installation (RU)

Right: Side view of wall reader for surface-mounted installation (RA)

## Application examples



**Ideal for electric strikes**  
Operate electric strikes or motorised locks on security doors using the AirKey wall reader.



**Ideal for locking elements**  
AirKey wall readers are also suitable for motorised cylinder actuation.



**Ideal for garage doors**  
Also operate garage doors using the AirKey wall reader, available in a colour to match your façade.



**Access/exit button**  
Actuate the relay in the control unit using the potential-free contact with a door button.

## Technical information

Assembly type	RU – flush-mounted frame   RA – surface-mounted frame
Glass colour	SW – black   SI – silver   WS – white
Frame colour	SWM – satin black   SWP – polished black   WSM – satin white   WSP – polished satin   SIM – satin silver   SIP – polished silver
Security features	Wall reader in a separate location from the control unit   4 mm thick glass panel   Event log   Integrated EAL5+-certified secure element   ECDSA and AES encryption
Standards and guidelines	CE-certified   IP65 protection
Technical installation situation	Indoors and outdoors   Up to 100 m distance between wall reader and control unit (recommended cable type: CAT5, max. 100 m, Rloop max. 2 Ω)
Dimensions	80 × 80 × 15 mm
Compatible identification technologies	NFC smartcards as card identification media, key tags and combi keys   Bluetooth 4.0 (BLE)   NFC
Power supply	Power supply via wall reader control unit
Conditions of use	Ambient temperature –25 °C to +70 °C   Humidity < 90%, non-condensing   IP 65 rating
Event protocol	Last 1,000 events
Interfaces	BLE   NFC   AirKey control unit   Switch inputs/outputs
Included components	Version RA – surface-mounted frame: AirKey wall reader, Flush-mounted frame with surface-mounted frame, Set of screws, Disassembly tools, Assembly manual, Important information   Version RU – flush-mounted frame: AirKey wall reader, Flush-mounted frame, Two wall seals, Set of screws, Disassembly tools, Assembly manual, Important information

## Versions



Assembly location



Glass colour



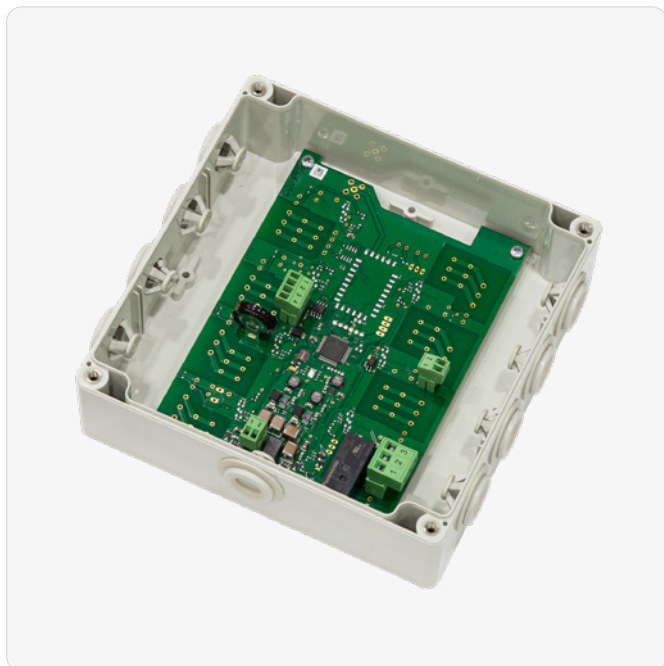
Frame colour

Versions  
see » **Page 108**

## Ordering

Product code	E.A.WL.[Assembly location].[Glass colour].[Frame colour]
Example	E.A.WL.RU.SW.SWP

## AirKey wall reader | Control unit

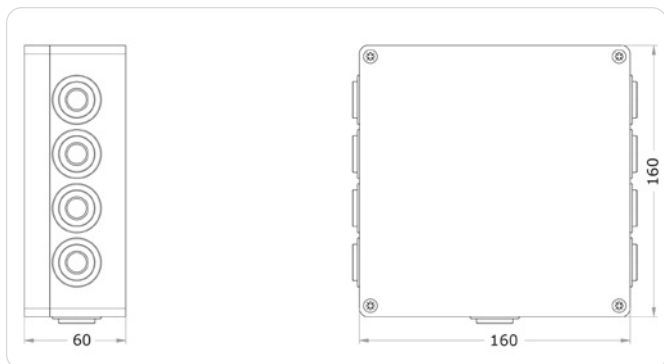


### Standards and guidelines



The AirKey wall reader control unit is designed to activate electronic locking elements in any type of door, for example in sliding or swinging doors, for electronic door openers, lifts and in electronic gate systems, etc.

The control unit is operated in combination with an AirKey wall reader.



### Application examples



#### Easy to accommodate

Due to the compact design, there are countless assembly options, such as in intermediate ceilings, control cabinets, on the wall surface, etc.



#### High switching performance

The control unit is equipped with a relay with a maximum switching performance of 250 VAC.



#### Access/exit button

Actuate the relay in the control unit using the potential-free contact with a door button.

## Technical information

Security features	Encrypted data transfer between wall reader and control unit
Standards and guidelines	CE-certified   IP54 protection
Technical installation situation	Attachment: intermediate ceilings, control cabinets   Up to 100 m distance between wall reader and control unit (recommended cable type: CAT5, max. 100 m, Rloop max. 2Ω)
Dimensions	160 x 160 x 60 mm
Power supply	12-24 VDC mains adapter, min. 24W (see accessories)     Data buffered for up to 72 h in the event of power cuts
Control situations	1 AirKey wall reader – 1 door
Switching performance	One relays per AirKey wall reader   max. 250 VAC   max. 16 A (ohmic) briefly, max. 10 A (ohmic) permanently
Conditions of use	-25 °C to +70 °C   < 90 % humidity, non-condensing   IP rating IP54
Event protocol	Last 1,000 events
Interfaces	AirKey wall reader
Included components	Control unit, completely preassembled   ESD protection diode for cable lengths over 3 m (12-24 VDC mains adapter)   Assembly manual   Important information

## Ordering

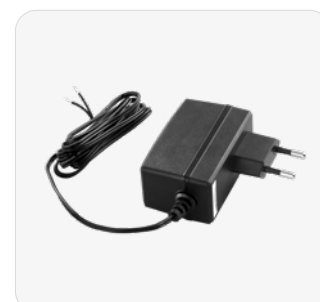
Product code	E.A.WL.CUS
--------------	------------

### Mains adapter for control unit

Designed as the AirKey wall reader control unit power supply (output 12V/2A, European plug).

Product code	E.ZU.WL.NT
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## Accessories



# AirKey wall reader | Versions

**Glass front panel**  
Resistant to scratches, glass finish in various colour versions.



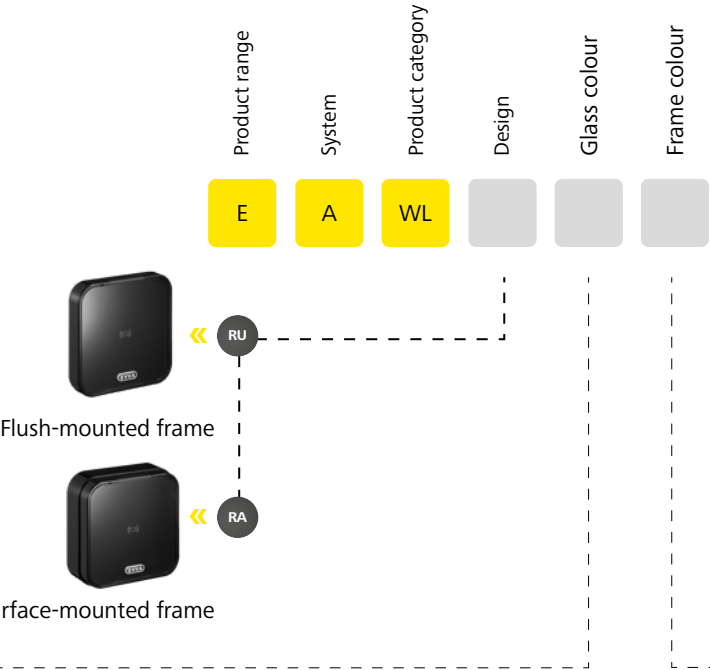
Glass in black



Glass in silver



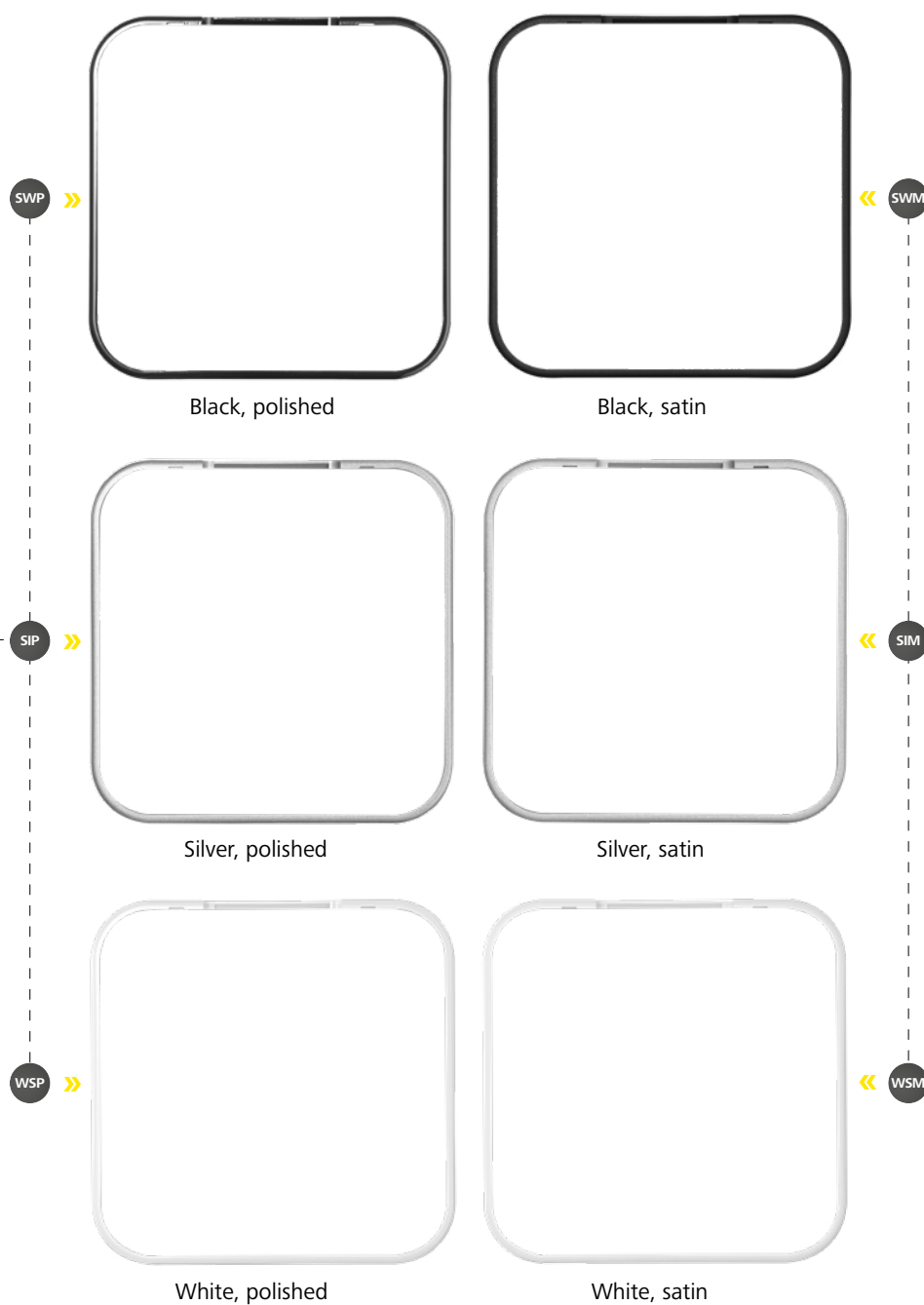
Glass in white



### Frame versions

Available with polished or satin finish.

Frame made of plastic with rounded-off shape.



### The perfect combination

- › Matches any environment: puristic, monochrome or with combined finishes.



### Matching products

- › AirKey wall reader control unit
- › EMZY electronic motorised cylinder (see product catalogue for mechanical locking systems)



# AirKey | Implementation

01

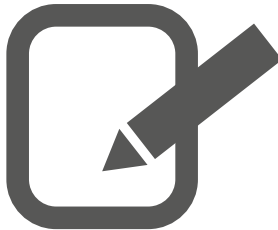
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Support  
Customer requests, support tools,  
system selection

02

Page  
113

Planning  
Project planning, project planning tools,  
prices



# 03

Page  
**114**

## Setup

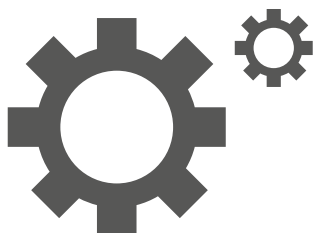
Ordering, delivery times,  
system setup

# 04

Page  
**115**

## Handover + operation

Documentation, maintenance +  
updates



# Support | Parameters, tips and tools



**Mechanical or electronic solution?**  
Each facility has different requirements regarding the access systems that secure it. Purely mechanical or electronic systems may be perfect to suit your needs. Usually, it's a combination of both, making facilities efficient, convenient and secure.

Comprehensive and responsible consultation is particularly important with regard to security.

For this reason, we at EVVA support our partners with our manufacturer expertise. Firstly, in dedicated training sessions. Secondly, by joining forces with our partners throughout support and planning.

	Mechanical locking systems	AirKey
Flexible extension		●
Flexibly grant authorisations		●
Lower levels of initial investment	●	●
Quickly delete identification media		●
Schedule-based access		●
Convenient operation		●
Multitude of different access situations	●	●
Send access authorisations from anywhere in the world		●
No individual IT infrastructure required	●	●
Unlock using the smartphone		●
Send keys		●
Permanent access	●	●
Multi-administration		●

● Perfectly suited

These values are guide values. Exclusively security experts can give you optimum advice.



**Wide range of promotional materials**  
» EVVA promotional material catalogue



**Support check list**  
» [www.evva.com](http://www.evva.com)

**Visit EVVA**  
» EVVA showroom

# Planning | Project planning + prices

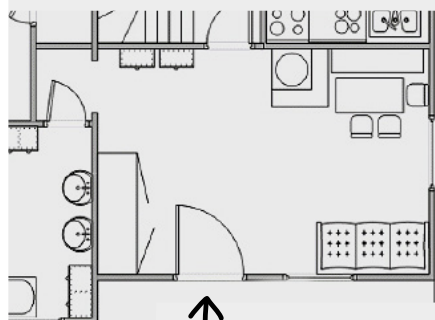
The most important aspect of planning and project planning is to quickly and comprehensively analyse the situation and customers' demands. This is either done by the EVVA-Partner alone or in collaboration with an EVVA advisor.

Once the basic requirements have been fully clarified the technical and financial parameters can be determined. This prevents unexpected, additional costs.

## Planning example

### 1. Customer request

You have established the following after comprehensive consultation: the customer requires a high level of security at the access door (door 1) and demands a polished nickel look.



**Door 1**



### Planning tip

- › Use the EVVA door check list to record customer requirements and the characteristics of the door, such as required cylinder lengths.
- › Take photographs. This will allow you to quickly and easily add missing information.



### 2. Product configuration

Product codes are easy to respond to.

Go to the AirKey cylinder configuration » **Page 50**

**E**

Electronic solutions

**A**

AirKey

**PZ**

Profile cylinder

**One-sided access**

**DZ-S**

Model

**Cylinder lengths**

**31/K31**

Cylinder lengths A/I

**Polished nickel**

**NI**

Finish

**FZG**

Thumbturn shape

Emergency function

Elongated outside thumbturn axis

Cam

### 3. Prices and offers

A brief glance at the price list and the offer is complete in no time.



# Setup | That's it

## Simple orders

Quickly and easily send us your completed order form from the Partner price list.



### Delivery in 10 days

EVVA's sensational delivery promise: All AirKey products will be ready for delivery within ten working days after order confirmation.\*

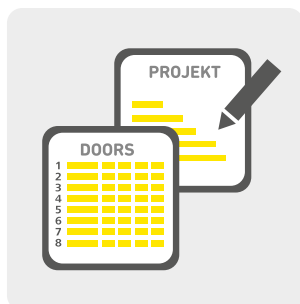


## Handover + operation | Components

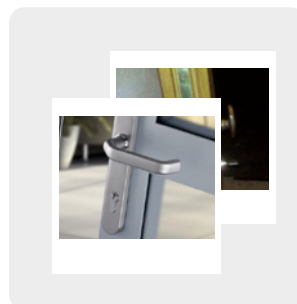
### Documentation

Partners hand over documentation to facilitate and ensure maintenance and adaptations to the system.

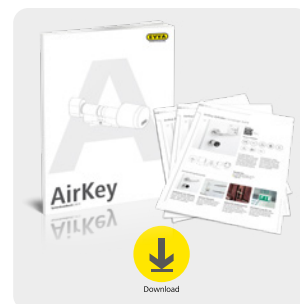
Said documentation may consist of several elements.



Completed project and door check lists



Photographic evidence and plans of the development project



Online quick assembly guide and data sheets

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