



Specifications

"Xesar" access control system

Xesar version 2.2

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1 Preface

1.1 Guaranteeing proper use

The access control/locking system offered must comply with the standards of an industrially produced security product and standardised service in terms of scope, design, project planning, delivery, installation and commissioning. The product and service to be offered must meet the most recent technical standards.

1.2 Guaranteeing the bid

Bidders must obtain detailed information about the specifications of all services prior to submitting the offer. After having submitted the order, no claims in terms of changes to pricing or having incorrectly interpreted the description, etc. shall be taken into account on the basis of inaccurate information about the required services. If bidders have the impression that individual parts have not been (adequately) described, they shall offer and describe these as part of an additional offer upon submitting the bid. Additional costs incurred as a result of not having observed this information shall not be remunerated. The regulations, standards and accepted technical regulations applicable to designing access control/locking systems valid at the time the offer is submitted shall apply to this offer, its implementation and remuneration. If applicable, all components shall comply with CE and in particular EMC (electromagnetic compatibility) as well as R+TTE directives (radio-controlled systems).

1.3 Guaranteeing comparability

The makes and services stated in these specifications shall be mandatory in terms of design and material. This is intended to make the offers suitable for specific comparison. Alternative offers shall be permitted. However, they must be listed and highlighted as alternative offers. In these cases, all items must feature new texts, production numbers and type data. In this event, the bidder shall be responsible for compliance with the obligation of verification.

1.4 Guaranteeing quality standards

The manufacturer shall provide verification of the suitability in terms of quality by submitting an ISO 9001 certificate issued by an accredited certification authority:

Manufacturers must have integrated a quality management system in compliance with the requirements of the correspondingly valid version of ISO 9001 and they must have verified the application and continuous development of the quality management system as part of a valid certificate issued by an independent, accredited certification authority.

2 System description

- The mechatronic access control/locking system consists of non-wired, electronic lock cylinders, escutcheons and handles (offline locking components) as well as wired wall readers, including control units that are operated online/offline.
- Identification media featuring Mifare DESFire EV1 technology as per ISO 14443A shall be used for access authorisations of users at locking components.
- The locking components feature an encryption method (128 bit AES) to control end-to-end data exchange of saved data with assigned identification media.
- Audible and visual signals must indicate access authorisation or rejection at locking components. Battery-powered door components use visual and audible warning signals to indicate a necessary battery replacement in due time.
- The use of battery operated offline locking components, lock cylinders, escutcheons and handles must be adapted to the corresponding installation situation, security requirements as well as the use of the components.
- Locally installed software shall be used to manage access control/locking systems. Access authorisations shall be assigned or changed using the software which transfers the current data to the identification media using a coding station or the online updater (wall reader).
- Any potentially required updates (e.g. firmware updates, calendar entries) shall be carried out using a mobile programming device (tablet) at an interface installed at the offline locking components.
- The locking components feature access event logs of the last 1,000 granted or denied access events. In this process, it is also possible to deactivate saving personal data in the software.
- Visual and tactile design guarantee intuitive use of the locking components.

Optional, non-wired network/virtual network:

- The virtual network is used to exchange information relevant to security between the management software of the access control/locking system and offline locking components, such as access event logs, blocked identification media (blacklists) and battery status.
- Online updaters are intended for using the virtual network which synchronises data relevant to security between the access control/locking system management system and identification media via a LAN connection.
- Blocked identification media are deleted by the door component upon attempting to access any door components to which identification media or the programming device have already transferred an up-to-date blacklist (kill card function).
- A high access event log security standard is achieved by door components transferring not only their own access events, but also those of other persons to the respective identification medium. This prevents access events by lost identification media from not being documented in the management software.
- Maximum number of online updaters: 123

Optional emergency access using the emergency power device

- In the rare event of a de-energised, offline locking component (e.g. as a result of battery failure) it is possible to briefly put the locking component into operation using an emergency power device.

3 Mechatronic lock cylinders

3.1 General description

Mechatronic lock cylinders:

- These components are equipped with one/two-sided authorisation verification. The standard variant [E.X.PZ.KZ-S] features an electronic RFID reader unit on the non-secured access side and a mechanical thumb turn on the secured inside. The external key override variant [E.X.PZ.DZ-S] features an electronic RFID reader unit on both sides. The one-sided, mechatronic lock cylinder [E.X.PZ.HZ-S] features an RFID reader unit on the non-secured access side.
- They feature a freely turning, electronic RFID reader unit on the access side which grants access upon presenting an authorised identification medium. The thumb turn must subsequently be turned to open the door.
- Components feature an integrated real-time clock (RTC) with automatic switchover for summer and winter time.
- They optionally provide manual, semi-automatic or schedule-based office mode. Activation and deactivation of the office mode can be configured in the software.
- Components do not require cabling in the door. It is possible to disassemble the outside or inside thumb turn for installation/removal. For reasons of security, the electronic RFID reader unit can exclusively be removed using a manufacturer-specific, special tool.
- Components feature an electronic activation system relevant to security behind the section of the mechatronic lock cylinder with drilling protection to prevent unauthorised opening by manipulation (e.g. forcefully removing the electronic RFID reader unit).
- They feature a motorised release mechanism that protects mechatronic lock cylinders from magnetic and mechanical manipulation (e.g. rotation, impact, etc.).
- Components feature a modular design (SYMO) to be able to modify the length or make local, system-specific modifications.
- They feature battery management which visually and audibly warns users 1,000 access events prior to reaching a critical battery state. All authorisation and access event log data remains available after having interrupted the power supply.

3.1.1 Hybrid cylinder variant

Mechatronic hybrid cylinders:

- These components correspond to the general description of mechatronic lock cylinders as per 3.1 and/or can additionally be integrated into a mechanical locking system. Lock cylinders feature an electronic RFID reader unit on one cylinder side and a mechanical locking mechanism on the opposite side that is compatible with EVVA locking systems.
- The access side featuring the electronic RFID reader unit can be operated using identification media (card, key tag, etc.). In contrast, the mechanical side is unlocked using a mechanical key. Consequently, it is not possible to combine a purely mechatronic locking system and a mechanical locking system in one single door.

3.2 Technical data and operation

- Areas of application: -20°C to + 55°C, < 90% air humidity, non-condensing
- Operated with commercially available CR2 batteries
- Normal operation: up to 65,000 access events - battery service life (for 100 operations per working day for approximately two years)

3.3 Registrations and certification

Tested and certified by an independent, accredited test institute as per EN 15684 - mechatronic lock cylinders: Requirements and test methods:

Classification key: 1 6 B 3 A F 3 2

- Usage category 1: for users with high levels of security awareness and a low risk of improper use
- Durability 6: 100 000 cycles
- Fire/smoke resistance B: for use in fire safety/smoke protection doors categorised as per EI 90 and tested as per EN 1634-1
- Corrosion resistance 3: high levels of environmental resistance and functional reliability
- Mechanical locking security A: no requirement for a mechatronic lock cylinder featuring an electronic RFID reader unit
- Electronic locking security F: data transfers from the mechatronic lock cylinder to identification media must be highly encrypted and feature a minimum of one billion electronic codes
- System management 3: access event logs and schedule-based areas must be listed
- Attacking resistance 2: integrated drilling and plug pulling protection as well as additional, technical measures to physically protect from unwanted intruders

Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:

- IP65 protection rating: suitable for use indoors and outdoors (in areas without protection against weather conditions)
- Suitable for use in burglary-resistant doors as per ÖNORM B 5338 resistance class 4 (ÖNORM B 5351 W_{MZ} 4-BZ) and recommended for burglary-resistant doors as per EN 1627 RC4
- The correspondingly valid building regulations or restrictions must be taken into account for use on emergency exit routes. The lock manufacturer has verified suitability for use of the mechatronic lock cylinders in emergency exits as per EN 179 or in panic doors as per EN 1125 on emergency escape routes in a declaration of conformity.
- A declaration of conformity for general use of the mechatronic lock cylinder is available.

4 Mechatronic escutcheons

4.1 General description of escutcheons

Mechatronic escutcheons:

- These components are equipped with one-sided authorisation verification. The standard variant [E.X.BE.] features an electronic RFID reader unit on the non-secured access side and a permanently engaged handle on the secured inside.
- The components feature a freely turning, handle on the access side which grants access upon presenting an authorised identification medium at the electronic reader unit. The now engaged handle must subsequently be operated to open the door.
- Components feature an integrated real-time clock (RTC) with automatic switchover for summer and winter time.
- They optionally provide manual, semi-automatic or schedule-based office mode. Activation and deactivation of the office mode can be configured in the software.
- Components feature a motorised release mechanism that releases the freely turning handle to grant access upon authorisation.
- They feature battery management which visually and audibly warns users 1,000 access events prior to reaching a critical battery state. All authorisation and access event log data remains available after having interrupted the power supply.
- Batteries on the protected inside.
- They always feature a three-point screw connection to increase stability.
- The components are available in combination with a mechanical override lock system in European or round profile.
- They feature a purely mechanical escutcheon in the same design, dimensions and attachment options as the complementary, supplementary product.

4.2 Technical data and operation

- Areas of application: outdoors - 20°C to + 60 °C, indoors 0 to + 60 °C (depending on the batteries used), < 90% air humidity, non-condensing
- Operated with commercially available AAA batteries
- Normal operation: up to 50,000 access events – battery service life (for 100 operations per working day for approximately 1.5 years)
- Maximum handle range: up to 40°
- Escutcheon can also be used in metal frame doors
- Escutcheon width: 40 mm
- Suitable for a door panel thickness between 39 and 114 mm
- Base plate for special areas of application

4.3 Registrations and certification

Tested and certified by an independent, accredited test institute based on EN 1906 - mechanical escutcheons: Requirements and test methods:

Classification key: 3 7 – B 0 3 1 B

- Usage category 3: frequent use by the public or other persons with low levels of security awareness and with high risks of incorrect application, e.g. doors in office buildings with access to the public.
- Durability class 7: 200 000 cycles
- Door material: (if required, base plate for use in heavy-duty doors)
- Fire/smoke resistance B: for use in fire safety/smoke protection doors categorised as per EI 90 and tested as per EN 1634-1
- Security 0
- Corrosion resistance 3: high levels of environmental resistance and functional reliability
- Burglary protection 1: low levels of burglary protection
- Design: Type B - spring-loaded escutcheon

Tested and categorised as per EN 16867 – mechatronic door escutcheons: Requirements and test methods:

- Identification media security D: extra high security levels as part of data transfers

Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:

- IP 55 protection rating: for use indoors and with enclosed gasket set also suitable for outdoor use in areas that are not protected against the weather conditions

Tested and certified by an independent, accredited test institute as per DIN 18257 - security escutcheons:

- ESO resistance category: low levels of burglary protection when used with an appropriate base plate. Resistance category ESO is not recommended for doors with burglary protection due to the low levels of anti-burglary features.
- The correspondingly valid building regulations or restrictions must be taken into account for use on emergency exit routes. The corresponding lock manufacturer has verified suitability for use of the mechatronic escutcheons in emergency exits as per EN 179 or in panic doors as per EN 1125 for doors on emergency escape routes in a declaration of conformity.
- A declaration of conformity for general use of the mechatronic escutcheon is available.

Tested and verified by an independent, accredited test institute based on DIN 18273 – door handle assemblies for fire/smoke protection doors:

- With general building authority test certificate (AbP) building regulations list A part 1 – edition 2014/2, no. 6.17 – "Ü" label

Corresponds to ÖNORM B 3859 for use in EI₁ and EI₂ protection doors as per ÖNORM B 3850 and ÖNORM B 3852 with a fire resistance of 30, 60 or 90 minutes or smoke protection doors as per ÖNORM B 3851.

5 Mechatronic handles

5.1 General description

Mechatronic handles:

- These components are equipped with one-sided authorisation verification. The standard variant [E.X.DR.] features an electronic RFID reader unit on the non-secured access side and a permanently engaged handle on the secured inside.
- The components feature a freely turning, handle on the access side which grants access upon presenting an authorised identification medium at the electronic reader unit. The now engaged handle must subsequently be operated to open the door.
- Components feature an integrated real-time clock (RTC) with automatic switchover for summer and winter time.
- They optionally provide manual, semi-automatic or schedule-based office mode. Activation and deactivation of the office mode can be configured in the software.
- Components feature a motorised release mechanism that releases the freely turning handle to grant access upon authorisation.
- They feature battery management which visually and audibly warns users 1,000 access events prior to reaching a critical battery state. All authorisation and access event log data remains available after having interrupted the power supply.
- Components feature a battery in the handle.
- They are exclusively installed using the 38 mm escutcheon screw connection.
- Components do not occupy the cylinder area for use of a mechanical override lock system (in European profile or round profile).
- They feature a purely mechanical handle in the same design, dimensions and attachment options as the complementary, supplementary product.

5.2 Technical data and operation

- Areas of application: + 5°C to + 50 °C, < 90% air humidity, non-condensing
- Operated with commercially available CR123A batteries
- Normal operation allows up to 50,000 access events with one battery (for 100 operations per working day for approximately 1.5 years)
- Maximum handle range: up to 40°
- Handle width: 56 mm
- Suitable for a door panel thickness between 35 and 95 mm

5.3 Registrations and certification

Tested and certified by an independent, accredited test institute based on EN 1906 - mechanical escutcheons: Requirements and test methods:

Classification key: 3 7 – B 0 3 0 B

- Usage category 3: frequent use by the public or other persons with low levels of security awareness and with high risks of incorrect application, e.g. doors in office buildings with access to the public.
- Durability class 7: 200 000 cycles
- Door material: -
- Fire/smoke resistance B: for use in fire safety/smoke protection doors categorised as per EI 90 and tested as per EN 1634-1
- Security 0
- Corrosion resistance 3: high levels of environmental resistance and functional reliability
- Burglary protection 0: no burglary protection
- Design: Type B - spring-loaded escutcheon

Tested and categorised as per EN 16867 – mechatronic door escutcheons: Requirements and test methods:

- Identification media security D: extra high security levels as part of data transfers

Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:

- IP 40 protection rating: exclusively suitable for indoor use
- The correspondingly valid building regulations or restrictions must be taken into account for use on emergency exit routes. The corresponding lock manufacturer has verified suitability for use of the mechatronic handle in emergency exits as per EN 179 or in panic doors in a declaration of conformity.
- A declaration of conformity for general use of the mechatronic handle is available.

Tested and verified by an independent, accredited test institute based on DIN 18273 – door handle assemblies for fire/smoke protection doors:

- With general building authority test certificate (AbP) building regulations list A part 1 – edition 2014/2, no. 6.17 – "Ü" label

Corresponds to ÖNORM B 3859 for use in EI₁ and EI₂ protection doors as per ÖNORM B 3850 and ÖNORM B 3852 with a fire resistance of 30, 60 or 90 minutes or smoke protection doors as per ÖNORM B 3851.

6 Mechatronic padlocks

6.1 General description

Mechatronic padlocks:

- These components are equipped with authorisation verification. The standard variant [E.X.HM24-S] features an electronic RFID reader unit on the bottom.
- They feature a freely turning, electronic RFID reader unit on the bottom which grants access upon presenting an authorised identification medium. The thumb turn must subsequently be turned to open the padlock.
- Components feature an integrated real-time clock (RTC) with automatic switchover for summer and winter time.
- Components feature an electronic activation system relevant to security behind the section of the mechatronic lock cylinder with drilling protection to prevent unauthorised opening by manipulation (e.g. forcefully removing the electronic RFID reader unit).
- They feature a motorised release mechanism that protects mechatronic lock cylinders from magnetic and mechanical manipulation (e.g. rotation, impact, etc.).
- They feature battery management which visually and audibly warns users 1,000 access events prior to reaching a critical battery state. All authorisation and access event log data remains available after having interrupted the power supply.

6.2 Technical data and operation

- Areas of application: -20°C to + 55 °C, < 90% air humidity, non-condensing
- Operated with commercially available CR2 batteries
- Normal operation: up to 65,000 access events - battery service life (for 100 operations per working day for approximately two years)

6.3 Registrations and certification

Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:

- IP65 protection rating: suitable for use indoors and outdoors (in areas without protection against weather conditions)
- A declaration of conformity for general use of the mechatronic lock cylinder is available.

7 Wall readers and control units

7.1 General description

Wall readers:

- These components are RFID reader units installed on the wall and are connected to the associated offline control unit using a cable. The maximum distance between wall reader and offline control unit is 100 metres. As a rule, one control unit must be used per wall reader. The offline control unit can be connected to two separate wall readers. If wall readers are used as online updaters, one control unit must be used for each assembly.
- Components feature manipulation and tampering control, monitored by the external offline control unit located in a secured area. If wall readers have been tampered with, e.g. forcefully removed, the wiring does not grant access to facilities or data.
- In the standard variant [E.X.WA] they feature a high-grade glass front panel and are suitable for surface or flush-mounted installation.
- The components feature an electronic RFID reader unit that grants access upon presenting an authorised identification medium. An external locking component (e.g. motorised lock, electrical door openers, motorised cylinders, etc.) is actuated following successful verification of the authorisation using an isolated contact.
- Components must be connected to the offline control unit via CAT5 cabling available on site.
- Components feature two isolated relay outputs in the offline control unit to allow actuation of an external locking component, sensor or monitoring system.
- Components feature an integrated real-time clock (RTC) with automatic switchover for summer and winter time.
- Components provide a data buffer of up to 72 hours in the event of a power cut.
- They optionally provide manual, semi-automatic or schedule-based office mode. Activation and deactivation of the office mode can be configured in the software.
- Components feature a permanently illuminated function display to improve localisation.

7.2 Technical data and operation

Wall readers:

- Areas of application: - 25°C to + 70 °C, < 90% air humidity, non-condensing

Offline control unit:

- Areas of application: + 10 °C to + 50 °C, < 90% air humidity, non-condensing
- Required power supply: +/-12 - 24 VDC (mains adapter optionally available)
- Switching power for the two relay outputs: at maximum 250 V AC, temporary maximum 16 A (ohmic), permanent maximum 10 A (ohmic)

7.3 Registrations and certification

Wall readers:

Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:

- IP65 protection rating: suitable for use indoors and outdoors (in areas without protection against weather conditions)
- A declaration of conformity for general use of the wall reader is available.

Offline control unit:

Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:

- IP 54 protection rating: for indoor use in secured areas

Optionally: wall readers as online updaters

Wall readers as online updaters:

- Components are used in conjunction with an updater control unit and an Ethernet adapter as the online component.
- Event logs are saved online in the database.
- The last 1,000 access events are also saved in the updater control unit
- Offline unlocking in the event of temporary network connection failure
- Blocked identification media are deactivated upon attempting identification at door components (kill card function)
- Updater control unit and Ethernet adapter in combination with a wall reader
- Ethernet adapters are supplied including mains adapter.
- Up to 123 wall readers can be installed as online updaters in a single access control system.

8 Accessories

8.1 Coding stations

Coding stations:

- These are components used to assign persons to access system identification media and update the identification media.
- Components are connected to the workstation running the management software using a USB interface.
- For reasons of security a system administration card is required to assign, change and delete authorisations.
- Components are intended to issue all access system identification media.
- They feature visual feedback for encoding processes
- Automatic updates of identification media without user interaction

8.2 System administration cards

System administration cards:

- Provide an additional security level. Issued once per access system.
- Components are intended to protect system data by enabling access to the software in conjunction with the user login data only. Consequently, the software can be started by inserting the system administration card into the coding station to be able to assign or change access authorisations.
- If lost or faulty, the system administration card can be replaced with a new system administration card using the system information printed out during commissioning. The old system administration card is rendered invalid once this process has been completed.

8.3 Mobile programming device (tablet)

The mobile programming device featuring pre-installed tablet app is intended for the following purposes:

- Initialising offline locking components
- Reading out access event from offline access control systems
- Synchronising the real-time clock of the offline access control system
- Distributing the blacklist (list of blocked identification media) to locking components
- If necessary, for updating the offline locking components (e.g. firmware update)
- Synchronising with the management software via a USB interface

8.4 Identification media

- The identification media used meet an industrial standard and they are therefore also used as identification media by other manufacturers (e.g. time sheets, automated solutions, vending machines and payment systems).
- The identification media are based on non-reproducible and maintenance-free, passive transponder technology, read or written to using a contactless system.
- Identification media are available as cards, key tags and Combi keys (mechanical keys with an identification medium integrated into the key bow).

8.5 Construction cards

- Construction card media offer the option of opening door components not yet configured during an electronic locking system's installation and initial commissioning stages.
- The media used are based on non-reproducible and maintenance-free, passive transponder technology and read or written using a contactless system.

8.6 Combi media

- Identification media combined with a mechanical key to operate mechanical and electronic locking systems

9 Management software

9.1 Management software

Management software:

- The software is intended to configure and manage the entire access control system using an intuitive and simple user interface and an encrypted database
- Enables creating any number of users with different authorisation profiles for system management in the software
- Enables simple management and transparent illustration of the following elements:
 - Users (at max. 65,000)
 - Door areas (at max. 96)
 - Doors within door areas (at max. 65,000)
 - Individual door authorisations per media (at max. 32)
 - Time windows (at max. 24 per medium)
- Assigning one identification medium per user
- Defining an individual time profile for each user. Time profiles feature up to 24 time windows. A time window is a period of time or weekday as well as five special days that can be configured individually. A total of 50 special days can be defined in advance.
- Defining time profiles in five minute segments.
- Automatic summer/winter time changeover.
- Creating templates to facilitate the creation of authorisation profiles
- Defining door areas for simpler administration of several doors
- Logging all access events of the corresponding door component
- Personal event logging per door component can optionally be deactivated (privacy by design)
- Enabling logging of user access events
- Data obtained as part of event logging of personal data can optionally be rendered anonymous for reasons of data protection (privacy by design)
- Creating identification media that is permanently authorised at all door components without expiry of the validity ("fire service identification media")
- Easily creating personal replacement media if users do not have their assigned identification media at hand upon entering the facility
- Featuring battery status displays for battery-operated door components
- Featuring the option of easily importing personal data via the REST interface
- Featuring the option to automatically export events after a freely configurable time
- Automatically backing up the database
- Available in several languages that can be directly selected without having to reinstall (10 languages – English, German, French, Dutch, Czech, Slovakian, Italian, Spanish, Portuguese, Polish)

The client PCs must meet the following requirements to operate the software:

- *Operating system: Windows 7, Windows 8.1, Windows 10, 32 bit or 64 bit*
- *Processor (CPU): at minimum 1.2 GHz, 32 bit or 64 bit*
- *RAM: at minimum 4 GB (32 bit) or 8 GB (64 bit) available read-only memory, of which at minimum half must be available to Xesar*
- *Hard disk space: at minimum 1 GB of available hard disk space*
- *Internet connection*
- *2 USB 2.0 ports*
- *Administration or installation rights to install software*
- *Screen resolution: at minimum 1366 x 768*

9.2 Management software ^{plus}

- Software enhancement of the system software to use the virtual network throughout the system.
- System information can be collected, distributed and synchronised with the online updater or the coding station by using identification media.

The following information is synchronised:

- Blacklist entries using the coding station or online updater (Management software ^{plus} only)
- Validity period of media using the coding station or online updater
- Event log entries (Management software ^{plus} only)
- Time profiles using the coding station or online updater
- Automatic office mode profiles
- Component battery status (Management software ^{plus} only)

10 Project planning and management for security systems

- Review
- Refining the security solution concept
- Determining important standards and guidelines
- Specifying actual product solutions
- Compiling a bill of materials
- Defining services and items to be provided by clients in advance
- Estimating labour costs for project planning, assembly/installation, transit times
- Creating a project schedule
- Compiling assembly/installation schedules
- Coordinating with third parties
- Creating wiring diagrams
- Logistics and procurement planning
- Project support
- Site consultation meetings
- Documentation

11 Installing and commissioning door components

- Installing door components
- Initialising door components
- Functional test of door components

12 Commissioning and final inspection of the system

- Software installation
- Setting up the PC and guaranteeing system requirements
- Supporting in creating the locking chart
- Software programming and configuration
- Authorising three identification media per individual user group
- Installation ID medium to unlock doors during installation

13 User training

- User training for a maximum of five persons
- Installation training
- Analysing different locking chart variants
- Adding, changing and deleting doors, users and access profiles

14 Specification items

Manufacturer:

Product/system subject to the offer:

Specifications	Project: Sample specifications
	Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 1.0 Mechatronic lock cylinder with one-sided authorisation verification
 From 31/31 mm to a total length of 92 mm, nickel plated European profile, including battery

Product subject to offer: EVVA
 Type: E.X.PZ.KZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 1.1 Mechatronic lock cylinder with one-sided authorisation verification
 From 31/31 mm to a total length of 92 mm, round profile 22, nickel plated, including battery

Product subject to offer: EVVA
 Type: E.X.PZ.RKZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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**Item 2.0 Mechatronic lock cylinder with two-sided
authorisation verification**
From 31/31 mm to a total length of 92 mm,
nickel plated European profile, including battery

Product subject to offer: EVVA
Type: E.X.PZ.DZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour..... /

Other costs.....

EP GP

**Item 2.1 Mechatronic lock cylinder with two-sided
authorisation verification**
From 31/31 mm to a total length of 92 mm,
round profile 22, nickel plated, including battery

Product subject to offer: EVVA
Type: E.X.PZ.RDZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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**Item 3.0 Mechatronic half cylinder with one-sided
authorisation verification**
From 31/31 mm to a total length of 92 mm,
nickel plated European profile, including battery

Product subject to offer: EVVA
Type: E.X.PZ.HZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

**Item 3.1 Mechatronic half cylinder with one-sided
authorisation verification**
From 31/31 mm to a total length of 92 mm,
round profile 22, nickel plated, including battery

Product subject to offer: EVVA
Type: E.X.PZ.RHZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 4.0 Mechatronic hybrid cylinder with electronic and mechanical authorisation verification

From 31 mm to a total length of 92 mm, nickel plated European profile, including battery

Product subject to offer: EVVA

Type: E.X/[System].PZ.DZ-S.[Outer length]/[Inner length].[Finish].[Function].[Extended outside turn barrel].[Cam].BZS

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 4.1 Mechatronic hybrid cylinder with electronic and mechanical authorisation verification

From 31 mm to a total length of 92 mm, round profile, nickel plated, including battery

Product subject to offer: EVVA

Type: E.X/[System].PZ.RDZ-S.[Outer length]/[Inner length].[Finish].FLU.[Extended outside turn barrel].[Cam].BZS

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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**Item 5.0 Surcharge for special length > 92 to 122 mm
 Mechatronic lock cylinders**

... UnitsLabour.....

Other costs.....

EP GP

**Item 5.1 Surcharge for special length > 122 mm
 Mechatronic lock cylinders**

... UnitsLabour.....

Other costs.....

EP GP

Item 6.0 Surcharge for polished brass finish
 Option code: MP

... UnitsLabour.....

Other costs.....

EP GP

Item 7.0 Surcharge for FAP anti-panic function
 FAP for use in panic door locks
 Option code: FAP

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 8.0 **FLU surcharge**
 For installation regardless of the length
 Option code: FLU

... UnitsLabour.....

Other costs.....

EP GP

Item 9.0 **FZG surcharge**
 For free-wheel function
 Option code: FZG

... UnitsLabour.....

Other costs.....

EP GP

Item 10.0 **Special tool surcharge**
 For mechatronic lock cylinders
 For assembling and disassembling electronic thumb turns

Product subject to offer: EVVA
 Type: E.ZU.PZ.ZW.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 11.0 Surcharge for extended outside turn barrel
 For security escutcheons with plug pulling protection (5, 10, 15 mm)
 Option code: AZ

... UnitsLabour.....

Other costs.....

EP GP

Item 12.0 Surcharge for different cam and cogwheel cam variants
 - Specific to lock

... UnitsLabour.....

Other costs.....

EP GP

Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 13.0 Mechatronic escutcheon with one-sided authorisation verification
 With U, L, W or R handle,
 optionally with cylinder hole for mechanical override lock system (lock cylinder),
 including battery, satin stainless steel,
 in combination with U or R handles also suitable in conjunction with
 tested mortise locks as per EN 179 for emergency exits

Product subject to offer: EVVA
 Type: E.X.BE.Z1.[Shape].[Square].[Finish].[Door panel thickness].[Cylinder hole].[Cylinder hole profile and distance]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 13.1 Mechatronic escutcheon for panic doors with one-sided authorisation verification
 In conjunction with tested mortise locks
 and tested as well as approved panic bars or emergency exit bars as per EN 1125.
 With U or R handle, optionally with cylinder hole for mechanical override locking system (lock cylinder),
 including battery, satin stainless steel

Product subject to offer: EVVA
 Type: E.X.BE.AP.[Shape].[Square].[Finish].[Door panel thickness].[Cylinder hole].[Cylinder hole profile and distance]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 13.2 Mechatronic escutcheon for fire/smoke protection doors, with one-sided authorisation verification
 With U, L, W or R handle,
 optionally with cylinder hole for mechanical override lock system (lock cylinder),
 including battery, satin stainless steel
 Installation must not require any changes to the door panel

Product subject to offer: EVVA
 Type: E.X.BE.FS.[Shape].[Square].[Finish].[Door panel thickness].BB.E00

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 14.0 Mechanical escutcheon
 With U, L, W or R handle,
 optionally with cylinder hole for mechanical lock system (lock cylinder),
 satin stainless steel

Product subject to offer: EVVA
 Type: E.X.BE.Z0.[Shape].[Square].[Finish].[Door panel thickness].[Cylinder hole].[Cylinder hole profile and distance]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 15.0 Surcharge for polished brass finish
 Option code: MP

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 16.0 Surcharge for base plate
 Base plate, width: 52, 65, 76 mm,
 to cover already available holes

Product subject to offer: EVVA
 Type: E.ZU.BE.UP.B

... UnitsLabour.....

Other costs.....

EP GP

Item 17.0 Surcharge for base plate in heavy-duty doors

Base plate for use of the
 mechatronic escutcheon in heavy-duty doors

Product subject to offer: EVVA
 Type: E.ZU.BE.UP.BST

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 18.0 Mechatronic handle with one-sided authorisation verification
 With U, L or W handle, including battery, satin stainless steel, in combination with U handle also suitable for emergency exit doors in conjunction with tested mortise locks as per EN 179

Product subject to offer: EVVA
 Type: E.X.DR.Z1.[Shape].[Square].[Finish].[Door panel thickness].[Orientation].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 19.0 Mechanical handle
 With U, L or W handle, satin stainless steel

Product subject to offer: EVVA
 Type: E.X.BE.Z0.[Shape].[Square].[Finish].[Door panel thickness].[Cylinder hole].[Cylinder hole profile and distance]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 20.0 Surcharge for polished brass finish
 Option code: MP

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 21.0 Surcharge for cylinder rosette for mechatronic handle
 Satin stainless steel or polished brass,
 either blind or with cylinder hole in European profile or round profile

... UnitsLabour.....

Other costs.....

EP GP

Item 22.0 Mechatronic padlock
 Nickel plated finish, including battery,
 hardened steel shackle, clear height 30 mm

Product subject to offer: EVVA
 Type: E.X.HA.HM24-S.[S/N clear height in mm].[Finish].[Option]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 23.0 Surcharge for extended Giro shackle
 For 40 mm, 50 mm, 60 mm, 70 mm, 80 mm,
 90 mm, 100 mm, 120 mm, 150 mm, 180 mm,
 200 mm, 240 mm

... UnitsLabour.....

Other costs.....

EP GP

Item 24.0 Shackle protection made of hardened steel with short shackle
 Hardened steel, clear height 17 mm

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 25.0 Wall reader for flush-mounted installation

In combination with control unit
 For the actuation of electronic encryption elements,
 sliding doors, sectional doors and separation systems,
 colour: black, white or grey,
 suitable for use indoors and outdoors

Product subject to offer: EVVA
 Type: E.X.WL.RU.[Glass colour].[Frame colour]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 25.1 Wall reader for surface-mounted installation

In combination with control unit
 For the actuation of electronic encryption elements,
 sliding doors, sectional doors and separation systems,
 colour: black, white or grey,
 suitable for use indoors and outdoors

Product subject to offer: EVVA
 Type: E.X.WL.RA.[Glass colour].[Frame colour]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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**Item 26.0 Offline control unit
for up to two separate wall readers**
Two relays (isolated, used as a normally closed or normally open contact)
Activate a locking unit

Product subject to offer: EVVA
Type: E.X.WL.CU.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 26.1 Updater control unit and Ethernet adapter
For wall readers as online updaters

Product subject to offer: EVVA
Type: E.X.WL.CU.V2

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 27.0 Mains adapter for offline control unit
230 VAC mains adapter to supply the offline control unit
with the required 12-24 VDC operating voltage

Product subject to offer: EVVA
Type: E.ZU.WL.NT.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 28.0 Coding station
Mifare DESFire EV1

Product subject to offer: EVVA
Type: E.ZU.CS.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 29.0 System administration card

Product subject to offer: EVVA
Type: E.X.IM.AC.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 30.0 Mobile programming device (tablet)
Including USB port,
associated mains adapter and connection cable

Product subject to offer: EVVA
Type: E.ZU.WL.NT.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 31.0 Basic software package

Product subject to offer: EVVA
 Type: E.ZU.LM.SW.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 31.1 Software plus software enhancement

Product subject to offer: EVVA
 Type: E.ZU.LM.PLUS1.V1

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 32.0 KeyCredits package

10, 50 or 100 assignments of access authorisations
 Depending on the demand of initial initialisations or changes
 to identification media with any number of access authorisations

Product subject to offer: EVVA
 Type: E.ZU.LM.KC[10/50/100]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 32.1 KeyCredits package for 12 months

12 months unlimited assignment of access authorisations
 Depending on the demand of initial initialisations or changes
 to identification media with any number of access authorisations

Product subject to offer: EVVA
 Type: E.ZU.LM.KC12M

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 32.2 KeyCredits package for 36 months

36 months unlimited assignment of access authorisations
 Depending on the demand of initial initialisations or changes
 to identification media with any number of access authorisations

Product subject to offer: EVVA
 Type: E.ZU.LM.KC36M

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 33.0 Access card in system-specific design
 4 kByte, Mifare DESFire EV1
 Available packaging units: 5/25/100 units

Product subject to offer: EVVA
 Type: E.X.IM.KA.D04K.V1.M[Packaging unit size]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 33.1 Access card in neutral design
 4 kByte, Mifare DESFire EV1
 Available packaging units: 5/25/100 units

Product subject to offer: EVVA
 Type: E.X.IM.KA.D04K.V2.M[Packaging unit size]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 34.0 Key tags
 4 kByte, Mifare DESFire EV1
 Available packaging units: 5/25/100 units

Product subject to offer: EVVA
 Type: E.X.IM.SH.D04K.V1.M[Packaging unit size]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 35.0 Construction Card
 4 kByte, Mifare DESFire EV1
 Available packaging units: 5/25/100 units
 Product subject to offer: EVVA
 Type: E.X.IM.CC.V1.M[Packaging unit size]

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 36.0 Combi keys
 4 kByte, Mifare DESFire EV1
 Featuring mechanical key for
 one of EVVA's mechanical locking systems,
 combined identification medium to operate mechanical
 and electronic locking systems.
 Product subject to offer: EVVA
 Type: M.[Electronic system].[Mechanical system].Combi key

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP

Item 36.1 Combi keys with extended neck
 4 kByte, Mifare DESFire EV1
 Featuring mechanical key for
 one of EVVA's mechanical locking systems,
 combined identification medium to operate mechanical
 and electronic locking systems.
 Product subject to offer: EVVA
 Type: M.[Electronic system].[Mechanical system].Combi key

Product subject to offer:.....

Type:.....

... UnitsLabour.....

Other costs.....

EP GP



Specifications Project: Sample specifications

Project no.: 00001

No./Type	Text/quantity/unit	Unit price (EP)	Total price (GP)
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Item 37.0 Project planning and management of an access control system

Service provider submitting the offer: EVVA
Code: D.PRJ.G.TAP

Labour.....

Hours:

EP GP

Item 38.0 Installing and commissioning door components

Service provider submitting the offer: EVVA
Code: D.TU.G.MON

Labour.....

Hours:

EP GP

Item 39.0 Commissioning and final system approval

Service provider submitting the offer: EVVA
Code: D.TU.G.TAP

Labour.....

Hours:

EP GP

Item 40.0 User training

Service provider submitting the offer: EVVA
Code: D.TU.G.TRA

Labour.....

Hours:

EP GP



15 Summary of all specification items

Total (net offer total): €-----

20% VAT: €-----

Total including VAT (gross offer total): €-----

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(Town/city and date)

(Provider: signature and stamp)