

Specifications

**“AirKey” Access Control System**

AirKey version 2.6 EN

[1 Preface 3](#_Toc189552897)

[1.1 Guaranteeing proper use 3](#_Toc189552898)

[1.2 Guaranteeing the bid 3](#_Toc189552899)

[1.3 Guaranteeing comparability 3](#_Toc189552900)

[1.4 Guaranteeing quality standards 3](#_Toc189552901)

[2 System description 4](#_Toc189552902)

[3 Mechatronic lock cylinders 5](#_Toc189552903)

[3.1 General description 5](#_Toc189552904)

[3.2 Hybrid cylinder variant 6](#_Toc189552905)

[3.3 Technical data and operation 6](#_Toc189552906)

[3.4 Approvals and certification 6](#_Toc189552907)

[4 Mechatronic cam locks 8](#_Toc189552908)

[4.1 General description 8](#_Toc189552909)

[4.2 Technical data and operation 8](#_Toc189552910)

[4.3 Approvals and certification 8](#_Toc189552911)

[5 Mechatronic padlocks 9](#_Toc189552912)

[5.1 General description 9](#_Toc189552913)

[5.2 Technical data and operation 10](#_Toc189552914)

[5.3 Approvals and certification 10](#_Toc189552915)

[6 Wall readers and control units 11](#_Toc189552916)

[6.1 General description 11](#_Toc189552917)

[6.2 Technical data and operation 12](#_Toc189552918)

[6.3 Approvals and certification 12](#_Toc189552919)

[7 Accesories 13](#_Toc189552920)

[7.1 Passive access media 13](#_Toc189552921)

[7.2 Combi media 13](#_Toc189552922)

[7.3 Coding station 13](#_Toc189552923)

[8 Management 14](#_Toc189552924)

[8.1 Online administration 14](#_Toc189552925)

[9 Interfaces 16](#_Toc189552926)

[9.1 REST interface to third-party systems 16](#_Toc189552927)

[10 Project planning and management of a security system 17](#_Toc189552928)

[11 Installing and commissioning door components 17](#_Toc189552929)

[12 Commissioning and final inspection of the system 17](#_Toc189552930)

[13 User training 17](#_Toc189552931)

[14 Specification items 18](#_Toc189552932)

[15 Summary of all specification items 36](#_Toc189552933)

# Preface

## 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.

## Guaranteeing the bid

Bidders must obtain detailed information about the specifications of all services prior to submitting the offer. After having submitted the offer, 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 specify 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. All components - where applicable - are CE-compliant and comply in particular with the EMC (electromagnetic compatibility) and RED directives (radio equipment), as well as are RoHS and REACH-compliant and comply with the requirements of the standard EN 18031, Common safety requirements for radio equipment.

## 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.

## 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.

# System description

* The AirKey electronic access control system consists of non-wired mechatronic cylinders, mechatronic padlocks and/or wall readers (offline AirKey components).
* Mobile phones compatible with NFC or BLE may be used for identification at the offline AirKey component readers. Alternatively, Java Card access media (cards, key fobs, mini tags or combination keys) can also be used. In all cases, identification is contactless.
* System administration is carried out using an online administration system operated and hosted by the manufacturer for parameterisation and control of the entire access system via a graphical, browser-based user interface. Access to the online administration tool is possible from anywhere in the world and at any time using a PC with internet connection.
* Configurations may be transferred to the offline AirKey components using NFC/BLE mobile phones with appropriate authorisations (“maintenance mode”) or using a coding station.
* New or changed access authorisations can be transferred to NFC/BLE mobile phones “over-the-air” using mobile phone networks or WiFi networks. Authorisations are saved in a previously installed application (AirKey app) on the NFC/BLE mobile phone.
* No special SIM cards or other system-specific hardware extensions are required to use NFC/BLE mobile phones as access media.
* Minimum requirement for the use of mobile phones as access media:
* Android version 8.0 and higher
* iOS version 14.0 and higher
* New or changed access authorisations can be transferred to Java Card access media (cards, key fobs, mini tags or combination keys) using a coding station connected to a PC workstation or an authorised NFC/BLE mobile phone.
* Access events triggered by each NFC/BLE mobile phone, the battery status of the AirKey components and further, relevant information (e.g. information on incorrect time settings in an AirKey component or pending firmware updates) are regularly transferred from the NFC/BLE mobile phones to the online administration via the mobile phone network or WiFi.
* The access control system is designed to manage systems in arbitrary and different, individual geographical locations. The system also supports managing locations in different time zones within one access control system with several administrators, if desired.
* Individual locking components of an installation can be part of several access systems (max. 250).
* AirKey components can be located by means of GPS coordinates, if required, or by entering the address in the online administration tool.
* The mechatronic lock cylinder and the mechatronic padlock are battery-powered and fitted in doors, or in the units to be locked, without requiring any cabling.
* In the event of power cuts, it is possible to open the AirKey components with an emergency power device.
* Audible and visual signals for authorised and non-authorised media as well as during the identification process.
* Battery-powered door components use visual and audible warning signals to indicate a necessary battery replacement in due time.
* AirKey has a REST interface for integrating the access control system into third-party systems of the user.

# Mechatronic lock cylinders

## General description

The mechatronic lock cylinder:

* Are equipped with one/two-sided authorisation verification. The standard variant [E.A.PZ.KZ-S] features an electronic reader unit on the non-secured access side and a mechanical thumb turn on the secured inside. The two-sided variant [E.A.PZ.DZ-S] features an electronic reader unit on both sides. The one-sided, mechatronic lock cylinder [E.A.PZ.HZ-S] features an electronic reader unit on the non-secured access side.
* has a freely rotating electronic reader thumb-turn on the access side, which enables access when an authorised access medium is presented or when locking using an authorised iOS or Android app. The thumb turn must subsequently be turned to open the door.
* has an EAL6+ certified secure element
* Allows event logging of both the opening and locking processes.
* Features an integrated real-time clock (RTC) with time zone control and automatic switchover for summer and winter time in accordance with the selected world time zone.
* has the option of manual, semi-automatic or time-controlled permanent opening. Activation and deactivation of the office mode can be configured in the software.
* It does not require cabling in the door. The outside or inside thumb-turn can be disassembled for installation and removal. For security reasons, the electronic reader thumb-turn can only be removed using a special tool provided by the manufacturer.
* has a security-relevant release electronics behind the drilling-protected area of the mechatronic locking cylinder to prevent unauthorised manipulation (e.g. knocking off the electronic reader thumb-turn) to open it.
* Features a motorised release mechanism that protects the mechatronic lock cylinder from magnetic and mechanical manipulation (e.g. rotation, vibration, …).
* has a modular design (SY-MO) in order to be able to carry out a length change or a use-specific change on site by the specialist partner.
* Features battery management, which visually and audibly warns users 1,000 access events prior to reaching a critical battery state. All authorisation and access log data are retained after a power failure
* Identification technology: NFC and/or BLE
* Simple, wireless firmware updates using NFC/BLE mobile phones with maintenance mode authorisation

## Hybrid cylinder variant

The mechatronic hybrid cylinder:

* This component corresponds to the general description of mechatronic lock cylinders as per 3.1 and/or can additionally be integrated into a mechanical locking system. The locking cylinder has an electronic reader thumb-turn on one side of the cylinder and a mechanical locking device on the opposite side of the cylinder, which is compatible with EVVA locking systems in modular design.
* The access side with the electronic reader thumb-turn can be accessed with an access medium (card, key fob, etc. or NFC/BLE mobile phone). In contrast, the mechanical side is unlocked using a mechanical key. Consequently, it is possible to combine a purely mechatronic locking system and a purely mechanical locking system in one single door.

## Technical data and operation

* Areas of application: - 20 °C to + 55 °C, humidity < 90% non-condensing
* Operated with commercially available CR2 batteries
* Normal operation mode: up to 35,000 access events - battery life approx. 2 years (at 100 activations per working day)

## Approvals and certification

* Tested and certified by an independent accredited testing institute in accordance with EN 15684 - Mechatronic locking cylinders: Requirements and test methods:
	+ Classification key: 1 6 B 3 0 D 3 D
* Usage class 1: for users who are highly motivated to exercise caution and have a low risk of improper use
* Durability 6: 100,000 cycles
* Fire/smoke resistance B: for use on fire and smoke protection doors classified according to EI 90 tested according to EN 1634-1
* Environmental resistance 3: High environmental resistance and functional reliability
	+ Mechanical locking security 0: No requirement for a mechatronic locking cylinder with an electronic reader knob
	+ Authorisation security D: Data transmission from the mechatronic locking cylinder to the access medium must be highly encrypted and at least one billion electronic codes
* System management 3: access event logs and time periods must be listed
	+ Attack resistance D: Integrated drilling and plug pulling protection as well as other technical measures as physical burglary protection
* Tested and certified by the SKG-ICOB testing institute according to SKG\*\*\*.
* 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 WMZ 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 doors in 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.

# Mechatronic cam locks

## General description

The mechatronic cam lock:

* These components are equipped with authorisation verification. The standard variant has an electronic reading knob on the front.
* is available as stand versions in the diameters 19mm [E.A.HB.MB19], 22mm [E.A.HB.MB22] and 27mm [E.A.HB.MB27].
* has a blocked electronic reader thumb-turn on the front, which enables access when an authorised access medium is presented or when locking using an authorised iOS or Android app. The knob must then be turned to open the cam lock.
* has an EAL6+ certified secure element
* Allows event logging of both the opening and locking processes.
* Features an integrated real-time clock (RTC) with time zone control and automatic switchover for summer and winter time in accordance with the selected world time zone.
* has the option of manual, semi-automatic or time-controlled permanent opening. Activation and deactivation of the office mode can be configured in the software.
* has a security-relevant release electronics behind the drilling-protected area of the mechatronic locking cylinder to prevent unauthorised manipulation (e.g. knocking off the electronic reader thumb-turn) to open it.
* Features a motorised release mechanism that protects the mechatronic lock cylinder from magnetic and mechanical manipulation (e.g. rotation, vibration, …).
* 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.
* Identification technology: NFC and/or BLE
* Simple, wireless firmware updates using NFC/BLE mobile phones with maintenance mode authorisation

## Technical data and operation

* Areas of application: - 20 °C to + 55 °C, humidity < 90% non-condensing
* Operated with commercially available CR2 batteries
* Normal operation mode: up to 35,000 access events - battery life approx. 2 years (at 100 activations per working day)

## Approvals and certification

* Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:
	+ Protection class IP 65: Suitable for indoor and non-weatherproof outdoor use
* A declaration of conformity for general use of the mechatronic lock cylinder is available.

# Mechatronic padlocks

## General description

The mechatronic padlock:

* These components are equipped with authorisation verification. The standard variant [E.A.HA.HM24-S] features an electronic reader unit on the bottom.
* has a freely rotating electronic reader thumb-turn on the underside, which enables actuation when an authorised access medium is held or when locking using an authorised iOS or Android app. The thumb turn must subsequently be turned to open the padlock and to lock it.
* has an EAL6+ certified secure element
* Allows event logging of both the opening and locking processes.
* Features an integrated real-time clock (RTC) with time zone control and automatic switchover for summer and winter time in accordance with the selected world time zone.
* has the option of manual, semi-automatic or time-controlled permanent opening. Activation and deactivation of the office mode can be configured in the software.
* has a security-relevant release electronics behind the drilling-protected area of the mechatronic locking cylinder to prevent unauthorised manipulation (e.g. knocking off the electronic reader thumb-turn) to open it.
* Features a motorised release mechanism that protects the mechatronic lock cylinder from magnetic and mechanical manipulation (e.g. rotation, vibration, …).
* 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.
* Identification technology: NFC and/or BLE
* Simple, wireless firmware updates using NFC/BLE mobile phones with maintenance mode authorisation

## Technical data and operation

* Areas of application: - 20 °C to + 55 °C, humidity < 90% non-condensing
* Operated with commercially available CR2 batteries
* Normal operation mode: up to 35,000 access events - battery life approx. 2 years (at 100 activations per working day)

## Approvals and certification

* Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:
	+ Protection class IP 65: Suitable for indoor and non-weatherproof outdoor use
* A declaration of conformity for general use of the mechatronic lock cylinder is available.

# Wall readers and control units

## General description

Wall readers:

* is a reader unit that is mounted on the wall and connected to the remote control unit via a cable. The distance between the wall reader and the control unit can be up to 100 metres. As a rule, one control unit must be used per wall reader.
* The has tamper and tamper protection, which is monitored by the external control unit in the secured area. If wall readers have been tampered with, e.g. forcefully removed, the cabling does not grant access to facilities or data as the data between wall reader and control unit is exchanged in an encrypted state.
* has an EAL6+ certified secure element
* The standard variant [E.A.WL] features a high-grade glass front panel and is suitable for surface or flush-mounted installation.
* has an electronic reader unit which enables access when an authorised access medium is presented or when locking using an authorised iOS or Android app. After a successful authorisation check, an external locking component (e.g. motorised lock, electric strike, motorised cylinder, …) is actuated via a potential-free contact.
* must be connected to the control unit using the customer’s CAT5 cabling.
* has a control input for a door button
* has a potential-free relay output in the control unit, which enables actuation of an external locking component, sensor system or monitoring.
* has the option of manual, semi-automatic or time-controlled permanent opening. Activation and deactivation of the office mode can be configured in the software.
* Components feature an integrated real-time clock (RTC) with automatic switchover for daylight saving time.
* The component provides a time setting and data buffer of up to 72 hours in the event of a power cut.
* Components feature a permanently illuminated function display to improve localisation.
* can be configured for data transfer to third-party systems via RS485 interface. If the opening process is successful, an ID of the access medium or smartphone is issued via the interface.
* Identification technology: NFC and/or BLE
* Simple, wireless firmware updates using NFC/BLE mobile phones with maintenance mode authorisation

## Technical data and operation

Wall reader:

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

The control unit:

* Areas of application: - 25 °C to + 70 °C, humidity < 90% non-condensing
* Required power supply: +/-12 - 24 VDC (mains adapter optionally available)
* Switching capacity of relay output: max. 250 VAC, short-term max. 16 A (ohmic), permanent max. 10 A (ohmic)

## Approvals and certification

Wall reader:

* Tested and categorised on the basis of EN 60529 – protection ratings of electronic operating units: IP code:
	+ Protection class IP 65: Suitable for indoor and non-weatherproof outdoor use
* A declaration of conformity for general use of the wall reader is available.

The 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
* A Declaration of Conformity is available for general use of the control unit.

# Accesories

## Passive access media

* The access media used comply with the EAL6+ industry standard and are therefore also used as identification media by other manufacturers.
* The access media used are highly secure passive NFC smart cards (Java Cards) that are EAL6+ certified and are read or written contactlessly and are maintenance-free.
* The access medium is available as a card, key fob, mini tag, wristband and as a combination key (mechanical key with access medium integrated in the key bow).
* The access medium can also be used for compatible third-party applications thanks to an additional free memory area with DESFire EV2 technology

## Combi media

* Passive access medium combined with a mechanical key for operating mechanical and electronic locking systems

## Coding station

* is a component that can be used to write and update authorisations and configurations to passive access media.
* can also be used to update locking component configurations
* is connected to a PC via a USB interface
* has visual signalling of the coding process.
* supports automatic updates of access media without user action. Can thus be used as an “online updater”.
* can read out certain data from passive access media and make it available to third-party applications.

# Management

## Online administration

Online administration:

* is used to configure and manage the entire access control system via an intuitive and simple user interface
* Used for the administration of an unlimited number of AirKey components, areas, persons and media
* is available in several languages and can be switched directly without new registration (11 languages - German, English, French, Italian, Dutch, Polish, Portuguese, Swedish, Slovakian, Spanish, Czech)
* is hosted from an ISO27001 certified data centre in Austria.
* Performance characteristics of the managed AirKey components
	+ The last 1,000 protocol entries are saved
	+ A maximum of 1000 block list entries can be managed
	+ A maximum of 96 areas can be assigned
	+ A maximum of 250 releases for additional clients can be assigned
* Performance features of the managed access media:
	+ A maximum of 256 protocol entries are saved
	+ A maximum of 150 authorisations can be assigned to individual doors and 100 authorisations to areas
	+ If only individual authorisations with 8 different periodic accesses are assigned, only 96 authorisations can be assigned in total
* Performance characteristics of the NFC/BLE mobile phone app:
	+ A maximum of 256 protocol entries are saved
	+ Unrestricted number of authorisations for individual doors and areas (until the upper database limit of the app in the smartphone has been reached)
* Allows time profiles to be defined at ten minute intervals.
* has a world time zone selection with automatic summer/winter time changeover
* Importing of person lists via CSV format
* Creation of several independent administrators and sub-administrators with restricted rights
* Access authorisations can be sent to the mobile phone with individual text ("Send a key")
* Several access media and NFC/BLE mobile phones can be assigned to each person
* Easy exchange function for access media and NFC/BLE mobile phones if they need to be replaced
* Handover document for NFC/BLE mobile phones and access media
* 2-factor authentication for increased security at login
* Online assistant (“Wizard”) to help with online administration work
* Prioritisation of maintenance tasks
* Door areas can be created for simpler administration of several doors
* Log of all access events of the corresponding door components
* Event log of actions performed by an administrator or sub-administrator
* Export of log files in CSV format
* Export locking chart in CSV format
* Event logging can be deactivated for door components on an individual basis if required (privacy by design)
* Log of all access events of the corresponding persons
* Event logging can be anonymised for personal data protection reasons if required (privacy by design)
* Management of manual, semi-automatic and automatic permanent openings per locking component
* Public holiday calendar administration – no automatic opening on public holidays
* Option to create an authorised access medium at any time without expiry time ("fire service access medium")
* Default values for the configuration of locking components can be saved so that the desired configuration does not have to be created manually when adding new locking components
* Automatic updating of locking components during a BLE opening process can be configured. The block list, time and event log entries are updated
* Viewing of event logs can be activated by enabling another administrator

# Interfaces

## REST interface to third-party systems

The interface:

* is used to integrate the access control system into third-party systems of the user
* is used for communication with and operation of the online administration of the access control system by third-party systems
* allows the following functions of the access control system to be controlled with third-party systems:
	+ Create persons with third-party systems or manage personal data
	+ Manage smartphones or passive access media with third-party systems
	+ Assignment of smartphones or other access media to persons
	+ Assign access authorisations for smartphones or other access media for components and areas with third-party systems
	+ Performing authorisation changes with third-party systems
	+ Manage locking component configurations
	+ Send access authorisations with third-party systems as SMS or e-mail
	+ Retrieve event log entries from the online administration in third-party systems
	+ Call up further administration and maintenance functions, such as block lists, public holiday calendars and maintenance tasks with third-party systems

# Project planning and management of a security system

* Reviewing available components
* Refining the security solution concept
* Clarifying important standards and guidelines
* Specifying the actual product solution
* 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 meeting
* Documentation

# Installing and commissioning door components

* Assembly/installation of door components
* Initialisation of door components
* Functional test of door components

# Commissioning and final inspection of the system

* Software installation
* Setting up via the PC and guaranteeing system requirements
* Supporting in creating the locking chart
* Software programming and configuration
* Installation ID medium to unlock doors during installation

# User training

* User training for max. 5 persons
* Installation training
* Analysing different locking chart variants
* Adding, changing and deleting doors, users and access profiles

# 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)

**Item 1.0 Mechatronic locking 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.A.PZ.KZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Item 1.1 Mechatronic locking 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.A.PZ.RKZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Item 2.0 Mechatronic locking cylinder with double-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.A.PZ.DZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Item 2.1 Mechatronic locking cylinder with double-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.A.PZ.RDZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Item 3.0 Mechatronic half cylinder with single-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.A.PZ.HZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Item 3.1 Mechatronic half cylinder with single-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.A.PZ.RHZ-S.[Outer length]/K[Inner length].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Item 4.0 Mechatronic hybrid cylinder with electronic**

**and mechanical authorisation verification**

from 31/36 mm to total length 92 mm,

nickel plated European profile, including battery

 Product subject to offer: EVVA

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

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**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.A/[System].PZ.RDZ-S.[Outer length]/[Inner length].[Finish].FLU.[Extended outside turn barrel].[Cam].BZS

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Item 5.0 Extra charge for special length > 92 to 122 mm**

 **Mechatronic lock cylinders**

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Item 5.1 Extra charge for special length > 122 mm**

 **Mechatronic lock cylinders**

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Item 6.0 Surcharge for polished brass surface**

Option code: MP

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Item 6.1 Surcharge for polished nickel surface**

Option code: NP

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

 **Item 6.2 Extra charge for brown patinated surface**

Option code: PB

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Item 6.3 Extra charge for black patinated surface**

Option code: PS

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 7.0 Surcharge for FAP panic function**

FAP for use in panic door locks

Option code: FAP

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Item 8.0 Extra charge for cam latching FSR**

FSR for use in half cylinders

Option code: FSR

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos 9.0 FLU surcharge**

For installation situation regardless of the position

Option code: FLU

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 10.0 Surcharge FZG**

For free-wheel function

Option code: FZG

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 11.0 Surcharge 2GW4**

Threaded hole on the rear for Europrofile half cylinder

Option code: 2GW4

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 12.0 SKG surcharge\*\*\***

for mechatronic lock cylinder, SKG\*\*\* variant

Option code: SKG

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 13.0 Surcharge for special tool set 2**

for the mechatronic lock cylinder

For assembling and disassembling the electronic thumb turn

 Product subject to offer: EVVA

 Type: E.ZU.PZ.ZWD

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 14.0 Extra charge for extended outside thumb-turn spindle**

for security escutcheons with plug pulling protection (5, 10, 15 mm)

Option code: AVxx

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 15.0 Extra charge for extended inside thumb-turn spindle**

Option code: ATA

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

 **Pos. 16.0 Surcharge for dummy module**

Option code: AL-I

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 17.0 Surcharge for different cam and**

 **cogwheel cam variants**

- Lock-related

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

 **Pos. 18.0 Mechatronic cam locks**

Nickel-plated finish; including battery,

MB19 in cylinder length 23mm, MB23 andMB27 in cylinder length 27mm

 Product subject to offer: EVVA

 Type: E.A.HB.MB[Diameter].[Cylinder length/version].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 19.0 Mechatronic padlocks**

Nickel-plated finish; including battery,

hardened steel shackle, clear height 30 mm

 Product subject to offer: EVVA

 Type: E.A.HA.HM24-S.[S/N clear height in mm].[Finish].[Option]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 20.0 Extra charge for extended stainless steel bracket**

at 40 mm, 50 mm, 60 mm, 70 mm, 80 mm, 90 mm,

100 mm, 120 mm, 150 mm, 180 mm, 200 mm, 240 mm

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 21.0 Hardened steel shackle protection with short shackle**

Hardened steel, clear height 17 mm

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

**Pos. 22.0 Chain attachment**

for padlock

... Units Labour......................

Other costs......................

------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 23.0 Wall reader for flush mounting**

In combination with control unit

For the actuation of electronic locking 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.A.WL.RU.[Glass colour].[Frame colour]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 23.1 Wall reader for surface mounting**

In combination with control unit

For the actuation of electronic locking 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.A.WL.RA.[Glass colour].[Frame colour]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 24.0 Control unit**

One relay (potential-free, can be used as an NC or NO contact)

for activating a locking device unit

 Product subject to offer: EVVA

 Type: E.A.WL.CUS

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 25.0 Mains adapter for control unit**

230 VAC power supply for the control unit

with the required 12-24 V DC operating voltage

 Product subject to offer: EVVA

 Type: E.ZU.WL.NT

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 26.0 KeyCredits package**

10, 50 or 100 assignments of access authorisations

Depending on the requirement for first initialisations or changes

of access 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:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 26.1 KeyCredits package 12 months**

12 months of unlimited assignment of access authorisations

Depending on the requirement for first initialisations or changes

of access media with any number of access authorisations

 Product subject to offer: EVVA

 Type: E.ZU.LM.KC12M

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 26.2 KeyCredits package 36 months**

36 months of unlimited assignment of access authorisations

Depending on the requirement for first initialisations or changes

of access media with any number of access authorisations

 Product subject to offer: EVVA

 Type: E.ZU.LM.KC36M

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 27.0 Access card in system-specific design**

80 kB, JCOP

8 kB, DESFire EV2

Available packaging units: 5/25/100 units

 Product subject to offer: EVVA

 Type: E.A.IM.KA.J80K+D08K.EC.M [packaging unit size]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 27.1 Access card in neutral design**

80 kB, JCOP

8 kB, DESFire EV2

Available packaging units: 5/25/100 units

 Product subject to offer: EVVA

 Type: E.A.IM.KA.J80K+D08K.PC.M [packaging unit size]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 28.0 key tags**

80 kB, JCOP

8 kB, DESFire EV2

Available packaging units: 5/25/100 units

Available colours: Black (SW), White (WS), Red (RT), Blue (BL), Yellow (GE), Green (GN)

 Product subject to offer: EVVA

 Type: E.A.IM.SH.J80K+D08K.M [packaging unit size].[colour]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 29.0 combi keys**

80 kB, JCOP

8 kB, DESFire EV2

Featuring a mechanical key for

one of EVVA's mechanical locking systems,

combined identification medium to operate mechanical

and electronic locking systems.

Available colours: Black (SW), White (WS), Red (RT), Blue (BL), Yellow (GE), Green (GN)

Available Akura44 colours: RAL9011, RAL1023, RAL200, RAL5014, RAL9010

 Product subject to offer: EVVA

 Type: M.[mechanicalsystem].SL.SL-A.[colour].J80K+D08K

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 29.1 Combination wrench with extended neck**

80 kB, JCOP

8 kB, DESFire EV2

Featuring a mechanical key for

one of EVVA's mechanical locking systems,

combined identification medium to operate mechanical

and electronic locking systems.

Available colours: Black (SW), White (WS), Red (RT), Blue (BL), Yellow (GE), Green (GN)

 Product subject to offer: EVVA

 Type: M.[mechanicalsystem].SL.SL-A.[colour].J80K+D08K.LSH

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 30.0 Mini Tag**

80 kB, JCOP

8 kB, DESFire EV2

Available packaging unit: 5 units

Available colours: Black (SW), Red (RT), Blue (BL)

 Product subject to offer: EVVA

 Type: E.A.IM.CSH.J80K+D08K. M[packaging unit size].[colour]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 31.0 Bracelet**

80 kB, JCOP

8 kB, DESFire EV2

Available packaging unit: 5/25/100 units

Available colours: Black (SW), Red (RT), Blue (BL)

 Product subject to offer: EVVA

 Type: E.A.IM.AB.J80K+D08K.M[packaging unit size].[colour]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 32.0 Sticker**

80 kB, JCOP

8 kB, DESFire EV2

Available packaging unit: 5/25/100 units

Available colours: White (WS)

 Product subject to offer: EVVA

 Type: E.A.IM.ST.J80K+D08K.M[packaging unit size].[colour]

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 33.0** **Cloud Interface activation fee**

for activation of the REST interface

 Product subject to offer: EVVA

 Type: E.ZU.LM.ACI

Product subject to offer:..............

Type:………………….

... Units Labour......................

Other costs......................

-------------------------------------------------

 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

Nr. / Art Text / Menge / Einheit Einheitspreis (EP) Gesamtpreis (GP)

**Pos. 34.0 Project planning of an access control system**

 Service provider submitting the offer: EVVA

 Code: D.PRJ.G.TAP

Labour......................

Hours: ...........

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 UP ........................ TP ........................

**Pos. 35.0 Installing and commissioning door components**

 Service provider submitting the offer: EVVA

 Code: D.TU.G.MON

Labour......................

Hours: ...........

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 UP ........................ TP ........................

**Pos. 36.0 Commissioning and final inspection of the system**

 Service provider submitting the offer: EVVA

 Code: D.TU.G.TAP

Labour......................

Hours: ...........

-------------------------------------------------

 UP ........................ TP ........................

**Pos. 37.0 User training**

 Service provider submitting the offer: EVVA

 Code: D.TU.G.TRA

Labour......................

Hours: ...........

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 UP ........................ TP ........................

Leistungsverzeichnis Projekt: Muster LV

Projekt-Nr.: 00001

# Summary of all specification items

#### Total sum (netoffer sum): €------------------

#### \_\_\_% VAT.: €------------------

#### Total amount incl. VAT (grossoffer amount): €------------------

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(Place and date) (Provider: signature and stamp)