

**ZRX**one

• **USER MANUAL** •



## PACKAGE CONTENTS

### EXTERNAL UNIT (flush mount with decorative frame)

Capacitive function buttons for full autonomous administration

Three colour LED communication

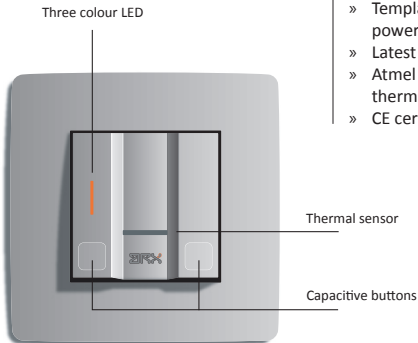
Buzzer for voice signals

Thermal swipe sensor

### INTERNAL UNIT (DIN rail mount)

2 relay outputs

USER MANUAL



- » Capacity: 1000 templates (fingerprints)
- » 3 administrator fingers capacity
- » 256 bit encryption
- » 2 relay outputs (up to 40 V DC or AC, max. 3 A)
- » Relay activation time adjustment (0,5 s - 30 s)
- » Up to 3 readers can be connected to one internal unit
- » For the installation of the reader in wall, on wall or on wall IP 55 switch boxes can be used
- » Max. Distance between external unit and internal unit 150 m
- » Internal unit is installed on DIN rail in the fuse box
- » Hi speed identification < 1,2 sec
- » Operating temperature range: -30 °C to +60 °C (-22 °F to +140 °F)
- » Operating humidity range: to 90 %
- » Templates remain in memory even after a power failure
- » Latest generation thermal sensor
- » Atmel Fingerchip® hi-resolution (500 dpi) thermal swipe sensor
- » CE certified

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## 1. FIRST START UP

Communication between the internal and external unit is protected by a unique code, which is pre-set for each device individually. When both units are connected to the power supply and the communication link is established, the orange and red LED will flash and the buzzer will buzz simultaneously for a short period. After this period, the orange LED will start to shine continuously which indicates that ARX-one is ready to be used. This also indicates that the device is in freescan mode (is waiting for a fingerprint). After performing any of the functions it also returns to the free scan mode.

**When fingerprint data base is empty, anyone can enrol fingers, so it is recommended that first three administrative fingers are enrolled immediately!**

## 2. PROPER USE

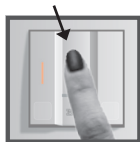
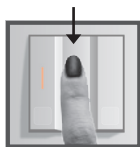
The thermal sensor used in the ARX-one enables excellent fingerprint scanning in any conditions and simultaneously minimizes chances of misuse. Nevertheless, every technology needs to be used according to its specifications, so the correct usage of the thermal sensor is described in the following section. With a little practice, user will quickly learn to swipe finger correctly.

If finger is not swiped correctly and image is too small, red LED flashes once. If any of the functions is not following the right path, it will be stopped after time out, red LED will flash and buzzer will buzz 3 times.

**Vertical position of finger while swiping:**

In order to get a high quality fingerprint image, the finger must be swiped over the sensor in a straight vertical line.

The ARX-one is designed with a concaved central part to actually force a finger into vertically straight swipe. The ridge that runs in the middle of the concaved part helps too, especially for blind or poor-sighted people.

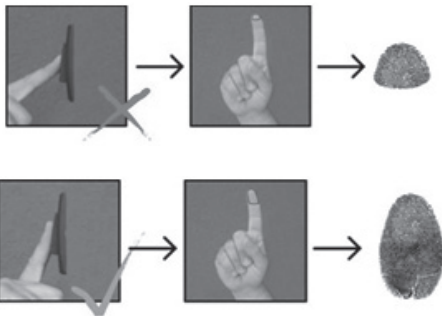
**Fingerprint area on scanning:**

It is essential to swipe the largest possible area of the fingerprint over the sensor. A bigger covered fingerprint area prevents identification and enrolment failure. This is especially important in the enrolment phase. With a high quality enrolled image, excellent identification is assured.

**Swiping speed:**

The maximum swiping speed over the sensor is 15 cm/s. If the finger is swiped too fast or too slow, the ARX-one will not react. Successful fingerprint enrolment is audibly indicated by a buzz, so it is good to pay attention to it.

It is recommended to enrol at least 2 fingers from each hand, so that in case of injury user can still open the door with the finger which is not injured.



### Choosing the relay:

ARX-one has two relay outputs. It can open two doors with one external unit. During fingerprint enrolment procedure, administrator chooses which relay will be triggered by this finger. Relay is chosen by pressing on one of the buttons for 2 seconds. If left button is pressed, relay 1 will be chosen, if right button is pressed, relay 2 will be chosen and if both buttons are pressed at the same time, both relays will be chosen.



The time how long a relay will be on after positive identification can be regulated. For relay 1 with left regulator and relay 2 with right regulator. By turning the regulator from right to left, time can be set between 0,5 s and 30 s. Regulators are placed on the lower part of internal unit (internal unit).

### Explanations and remarks:

It is necessary to swipe the finger successfully over the sensor four times when a new fingerprint template is being enrolled. This enables the device to get the best image possible and, in so doing, drastically reduces the possibility of subsequent unsuccessful identification. Sometimes more than four swipes will be required for successful enrolment. This can happen for various reasons: The fingerprint image was too small, the finger was wet or dirty (ARX-one can usually identify a fingerprint even with wet and greasy fingers but in the enrolment phase it is best to have clean hands).

Every function is limited by a time out. When a new template is being enrolled there are 2 minutes of time to complete the enrolment. Even if the function wasn't concluded for some reason, there is no fear of misuse. The same fingerprint template cannot be enrolled more than once.

It is recommended that administrator fills the Administrator and user list, which is enclosed to this manual, so that there is a complete overview who is administrator, who are users, when they were enrolled or deleted, which fingers are enrolled and which relay is related to the finger. It is also recommended to mark which relay is connected to which door or device (electrical installer should give this information).

### 3. ADMINISTRATOR'S ROLE

Only an administrator has the right to enrol or delete users. Function buttons are found on the external unit which is accessible to anybody. It is therefore extremely important that only an authorised person can execute the ARX-one functions. ARX-one will save three administrator templates (either three from a single person or one each from three separate people). Administration enrolment is simple. When the ARX-one is installed, the first three fingerprints enrolled are assigned to administrative rights. When the ARX-one is in freescan mode these three fingerprints perform the same functions as any other user's fingerprints, when positively identified they trigger the relay.

#### Administrator enrolment procedure:

1. The left button on the external unit should be pressed for 3 seconds. The orange LED will start

flashing fast.

2. Administrator must now choose which relay will be triggered with this finger, by pressing the adequate button. The green LED flash and buzzer buzz one time. Orange LED will start flashing slow.

3. The administrator then swipes his/her finger over the sensor four times. Each successful entry is indicated by a buzz.

4. When the administrator is correctly enrolled, the green LED will flash and the buzzer will buzz one time.

The same procedure is repeated with other two administrative fingerprints.

#### **Important:**

*Administrative fingerprint templates can be erased only with »delete all« function which also erases all other templates in the memory. That's why the administrator must be chosen carefully, especially if the ARX-one is used by more than a few people.*

#### **4. USER FINGER ENROLMENT**

After the administrative templates are enrolled, pressing the left button for 3 s on the external unit will trigger the »enrol user finger« function. The only ARX-one right that a user has is triggering the relay output in the event of positive fingerprint identification.

#### **User finger enrolment procedure:**

1. The left button on the external unit should be pressed for 3 seconds. The orange LED starts flashing slow.

2. An administrator swipes his finger over the

sensor once. When he/she is identified, the orange LED will start flashing fast.

3. Administrator must now choose which relay will be triggered with this finger, by pressing the adequate button. The green LED flash and buzzer buzz one time.

4. The orange and green LEDs will flash alternately. At this point the user swipes his/her finger over the sensor four times. Each successful entry is indicated by a buzz.

5. When the user is correctly enrolled, the green LED will flash and the buzzer will buzz one time.

#### **Important:**

*If the enrolment procedure is interrupted by an unsuccessful identification or a function time out, the whole procedure needs to be repeated. When a user is enrolling a fingerprint, the pause between each swipe of the finger should be at least two seconds. Sometimes, more than four swipes will be required to successfully enrol a user.*

#### **5. DELETING A USER FINGER**

The ARX-one provides a »delete user finger« function without employing a visual database (e.g. a fingerprint template can not be connected to the user's name, surname or other vital data). This means that the user who has to be deleted must be present, but also that the user's identity can not be revealed to a third party. User finger delete selection is done via a positive match of swiped finger. Only one finger of a user can be deleted at one time, not all fingers of the user at the same time! Please check Administrators and users list, to

see how many fingers of the user, which should be deleted, are enrolled.

### How to delete a user?

1. Check the Administrators and users list to see which fingers of the user, which should be deleted, are enrolled and inform user which fingers he/she must swipe.
2. The right button on the external unit should be pressed for 5 seconds whereupon the orange LED will start flashing slow.
3. An administrator swipes his/her finger over the sensor once. When he/she is identified, the green LED will flash and the buzzer will buzz one time.
4. The red and green LEDs will flash alternately. Then the user swipes his/her finger over the sensor once. When the user is identified, the red and green LEDs flash and the buzzer will buzz three times. The user finger has been successfully deleted from the system.

## 6. DELETE ALL (USERS AND ADMINISTRATORS)

By performing this function all existing templates in the database are deleted. After this procedure the device database will be empty and the next three fingerprints enrolled will have administrator rights again. This function is used when the ARX-one or the place where it is installed should get a new owner or when there is a need to change the administrator.

To prevent that delete all function will be performed by mistake, 2 authentications by administrator are required.

### How to delete all?

1. Press the left and right button together for a period of 10 seconds whereupon the orange and red LEDs will flash alternately.
2. The administrator then swipes his/her finger once. Identification is confirmed when the green LED flashes and the buzzer buzzes one time.
3. The orange and red LEDs will flash alternately again. The administrator then swipes his/her finger once again. Identification is confirmed when the green LED flashes and the buzzer buzzes at the same time.
4. The red and orange LEDs will flash and the buzzer will buzz five times simultaneously. All fingerprint templates will then have been deleted.

#### Important:

*When performing the 'Delete all' function it is necessary that the administrator confirms it twice. At any time during the execution of the 'Delete all' function, the function can be stopped with time out.*

#### Factory reset:

How to delete all if administrator is not available anymore?

There is a black pushbutton on the lower part of internal unit. This pushbutton is normally used for pairing the external units to internal unit (see chapter 9). If this button is pressed for 30 s, the device will perform factory reset. Whole fingerprint data base will be erased.

## 7. SHINE SIGNALS TABLE

LED	BUZZ	STATUS	FREQUENCY	EXPLANATION
Orange + red	Yes	Shines	App. 3 s	ARX-one has been connected to power and is initialising.
Orange	No	Shines	✕	ARX-one is in freescan mode. All functions: enrol, delete, delete all and open the door in case of positive match.
Orange	Yes	Flashing fast	Until time out	ARX-one is waiting that relays will be chosen.
Orange	No	Flashing slow	Until time out	ARX-one is waiting for an administrator's finger (administrator enrol, add user or delete user function)
Green	Yes	Flashes 1 x	1 x 1 s	<ul style="list-style-type: none"> <li>» Administrator or user has been identified.</li> <li>» Fingerprint template was successfully stored in the database.</li> <li>» Relay was chosen.</li> <li>» External unit was successfully paired with internal unit.</li> </ul>
Red	No	Flashing	Continuous	Device malfunction.
Red	Yes	Flashing	3 x	<ul style="list-style-type: none"> <li>» Administrator or user hasn't been identified.</li> <li>» Fingerprint template wasn't stored in the database.</li> <li>» Time out of a function.</li> <li>» Fingerprint data base is empty.</li> </ul>
Red	Yes	Flashes 1 x	1 x 3 s	Fingerprint database is full.
Red	No	Flashes	1 x	Finger was swiped incorrectly. Fingerprint image is too small.
Green + orange	No	Flashing alternately	Until time out	ARX-one is waiting for a new user to swipe (Enrol user function).
Green + red	Yes	Flashing together	3 x	ARX-one has successfully deleted user fingerprint.
Green + red	No	Flashing alternately	Until time out	ARX-one is waiting for a user to swipe (delete user function).
Orange + red	No	Flashing alternately	Until time out	Until time out ARX-one is waiting for an administrator's finger (delete all function).
Orange + red	Yes	Flashing together	5 x	ARX-one has successfully deleted all fingerprint templates from the database.



## 8. TROUBLESHOOTING

ERROR	CAUSE	TROUBLESHOOTING
Fingerprint enrolment did not succeed.	The finger was swiped over the sensor too fast or too slow.	The finger should be swiped at normal speed. The maximum speed is 15 cm/s.
	Too small an area of a fingerprint was swiped over the sensor.	The finger should be swiped over the sensor with the largest possible area.
	The fingerprint template is already stored in the database.	Try to identify the finger (in freescan mode).
	The database is full.	A new fingerprint can be enrolled when some of the existing fingerprints in the database are deleted.
The fingerprint stored in the database can not be identified.	The finger was swiped over the sensor too fast or too slow.	The finger should be swiped at normal speed. The maximum speed is 15 cm/s.
	Too small an area of a fingerprint was swiped over the sensor.	The finger should be swiped over the sensor with the largest possible area.
Orange LED is not shining after power up.	The device is not connected to a power supply.	Check if the wires are damaged.
		Check the fuse to which ARX-one is connected.
		Call the authorised repairman.
Red LED is flashing.	Device error.	Call the authorised repairman.
Finger is recognised and green LED flashes, but the relay is not triggered.	<ol style="list-style-type: none"> <li>1. The external unit (external device) is not paired with internal unit (internal device)</li> <li>2. Relay or electric lock malfunction</li> </ol>	<ol style="list-style-type: none"> <li>1. Pair the external unit according to chapter 9.</li> <li>2. Call the authorised repairman.</li> </ol>

## 9. MAINTENANCE

The ARX-one doesn't require any special maintenance. The sensor is actually cleaned by every swipe but in special cases (e.g. if ARX-one is used with extremely greasy or dirty fingers) it can be cleaned with a dry or moist cloth. Even mild cleansers can be used.

### **Important:**

*Aggressive cleaners, solvents or acids must not be used to clean the ARX-one! Rubbing the sensor with hard or sharp objects can result in device malfunction and loss of warranty entitlement.*

## 10. PAIRING THE EXTERNAL UNIT TO INTERNAL UNIT

The external unit (reader) and internal unit (internal unit) in the package are already paired and can be used immediately. To pair an additional external unit (up to 3 external units can be paired to 1 internal unit), pairing to internal unit must be performed, by pressing the black pushbutton on the internal unit.

On the lower part of internal unit, left from the regulators of opening time, there is a black pushbutton. With this button pairing procedure is triggered. If button is pressed for 3 s, orange LED on internal unit will start to flash. This means, that internal unit is in pairing mode for 2 minutes.

### **Important:**

*If the button is pressed for more than 30 s, factory reset will be performed and all paired devices will be erased.*

### **Pairing procedure:**

1. At least one finger must be enrolled in the external unit which will be paired.
2. Black pushbutton on internal unit should be pressed for 3 s, orange led starts to flash continuously.
3. Both capacitive buttons on external unit should be hold for 20 s (orange and red LED starts to flash simultaneously after 10 s. ignore that and still hold the buttons.)
4. after 20 s green LED flash and buzzer buzz one time. After that the units are paired.

## 11. INSTALLATION MANUAL

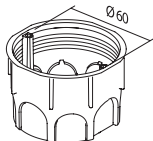
ARX-one has two relay outputs, to open up to two doors or to open one door and trigger other device, like silent alarm. The basic package includes one external unit (reader) and one internal unit. Up to 2 external units can be paired additionally (3 in total). ARX-one has its own internal power supply, which can supply the power for up to 3 external units, or 1 external unit and 1 low power electric lock, consuming less than 500 mA. In case that multiple external units are used with a single internal unit or an electric lock with higher consumption than 500 mA, an additional external power supply must be purchased and connected like it is shown in the diagrams 4 and 5. If intercom is installed in the

house, connected with the existing electric lock. Power supply of the intercom can be used for triggering the lock.

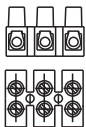
#### External unit mounting:

External unit is designed to be installed in  $\varnothing$  60 mm in-wall switch box.  $\varnothing$  60 mm in wall switch box is standard for most of standard electrical house installations and fits to the mechanical dimensions of market known wall switch box suppliers. Also an on wall mounting box for ARX-one is available on request. It is recommended to install external unit (reader) at the minimum height of 150 cm or higher. At this height, average user can easily swipe the finger.

External unit should not be exposed to direct rain, except if IP55 (water proofed) on wall mount box for ARX-one is used (available on request). It also should not be exposed to direct sunshine, at least not whole day. Direct sunshine can shorten the lifetime of the thermal sensor.



in wall switch box



2 row terminal box

#### Internal unit mounting:

Internal unit is designed to be installed on a DIN rail in the fuse box. It takes 4 spaces for automatic

fuses.

(Also optional power supply can be mounted on the DIN rail.)

#### Connection instructions:

For connection between external and internal unit 3, minimum 0,5 mm<sup>2</sup>, knitted (not solid) copper wires should be used and it is recommended that the cable has a grounded envelop if this cable is installed near to the other high power cables. For cable connection 2 row terminal box should be used.

The maximum length of the cable (the distance) between external and internal unit is 150 m.

External unit (reader) has 3 connection wires with black envelop. Each wire has a number printed on the envelope (1, 2 and 3):

**1** = +12V – positive pole

**2** = LIN – encrypted connection

**3** = GND – negative pole

Numbers 1, 2, and 3 are printed also on the housing of internal unit and those contacts are used for connection between external unit and internal unit. Up to 3 external units can be connected to a single internal unit. Connection must be wired like shown in the diagram 5.

Internal unit should be connected to the power (85 – 265 VAC and frequency 47 – 63 Hz) with solid copper wires, minimum surface of wire 1,5 mm<sup>2</sup>. Connector for power is marked on the housing of internal unit with the signs:

L = phase (line)  
N = zero (negative line)  
G = ground

**WARNING!**

Because of high voltage supply of internal unit, installation must be done by educated electrical installer.

**Electric lock:**

Electric lock can be connected to one of 2 relays, like shown in the diagrams. Relays can switch also other devices. House alarm (alarm must have possibility of switching with relay), light, machine etc. Also silent alarm function can be triggered with one of the relays. In this case user should use specific finger, which will trigger two relays at the same time, one for the door and another for silent alarm. House alarm should have possibility of triggering the silent alarm by relay (consult with house alarm installer).

There are two kinds of relays used in internal unit. Relay no. 1 has 3 contacts: NO (normally open), C (center) and NC (normally closed). This relay can be used also for triggering the magnet locks which needs constant power while closed and power should be switched off for opening. Relay no. 2 has two contacts, which are normally disconnected. Wiring: 1,0 mm<sup>2</sup> knitted (not solid) copper wires should be used for connection between internal unit and lock. If DC power supply is used, maximum length of the wiring should not be more than 20 m. If the distance between internal unit and lock is more than 20 m, AC power is recommended (as it

has less power loss per meter). It is recommended not to use more than 100 m long wiring between internal unit and lock.

For electric lock the power supply of ARX-one can be used, if consumption is less than 500 mA. If electric lock has higher consumption than 500 mA, it is necessary to use an additional power supply. Also if 2 or 3 external units are connected to one internal unit it is necessary to use an additional power supply for the locks, because external units demand all available power of ARX-one internal power supply.

**Push button on internal device:**

Push button on internal device has two functions.

1. If button is hold for 3 s, pairing procedure is enabled
2. If button is hold for 30 s, factory reset is made and whole data base of fingerprints (including administrator) is deleted. Also all paired devices (pairing keys) are deleted.

**Additional power supply:**

12 V and 24 V additional power supply is available on request. If electrical lock requires 24 V power supply, additional 24 V power supply must be installed. Both relays can switch up to 40 V DC or AC power, maximum 3 A.

### List of contacts on internal unit:

L	Phase (line) 110-230 V~	Power connection
N	Zero (negative line)	Power connection
G	Ground	
1	+ 12 V	Connection with exterior unit , pin no. 1
2	LIN encrypted signal	Connection with exterior unit , pin no. 2
3	- 12 V	Connection with exterior unit , pin no. 3
4	+ 12 V	Can be used for el. Lock or pushbutton
5	Connection for pushbutton	With this pushbutton we trigger relay number 1. Relay is on as long as we hold the button. (Diagrams 3 and 4)
6	Not in function	
7	Not in function	
8	Contact of relay no. 2	Diagrams 3 and 5
9	Contact of relay no. 2	Diagrams 3 and 5
10	Contact of relay no. 1 (normally open)	See different usage in diagrams 2, 3, 4, 5
11	Contact of relay no. 1 (center)	See different usage in diagrams 2, 3, 4, 5
12	Contact of relay no. 1 (normally closed)	See different usage in diagrams 2, 3, 4, 5

### 12. ACCESSORIES

ADDITIONAL ACCESSORIES ON REQUEST (not included in the package)

Non flush mount (on wall) housing in white or silver colour



On-wall box silver:  
*NNTEMES*

on-wall box white:  
*NNTEMPW*

Non flush mount (on wall) IP55 housing in white colour



on-wall box IP55:  
*NNTEMIP55*

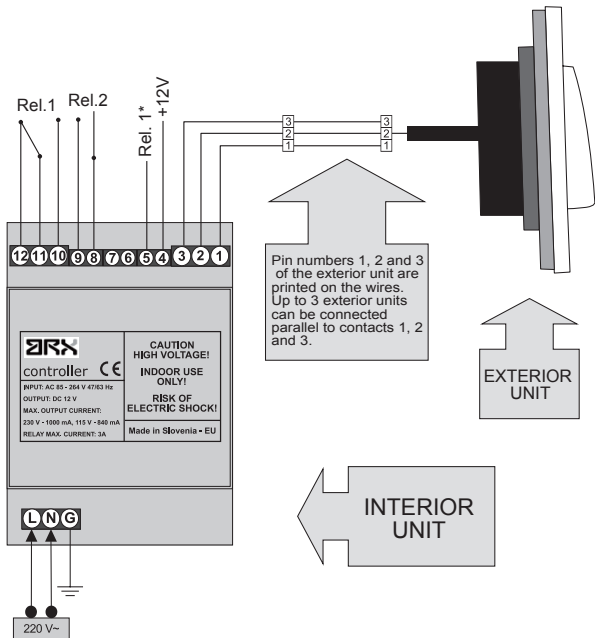
External DIN rail power supply (needed if electric lock is using more than 500 mA or if multiple locks are connected to internal unit)

Available power: 12 VDC/4,5 A or 24 VDC/2,5 A



DIN rail power supply:  
*DNP21DIN*

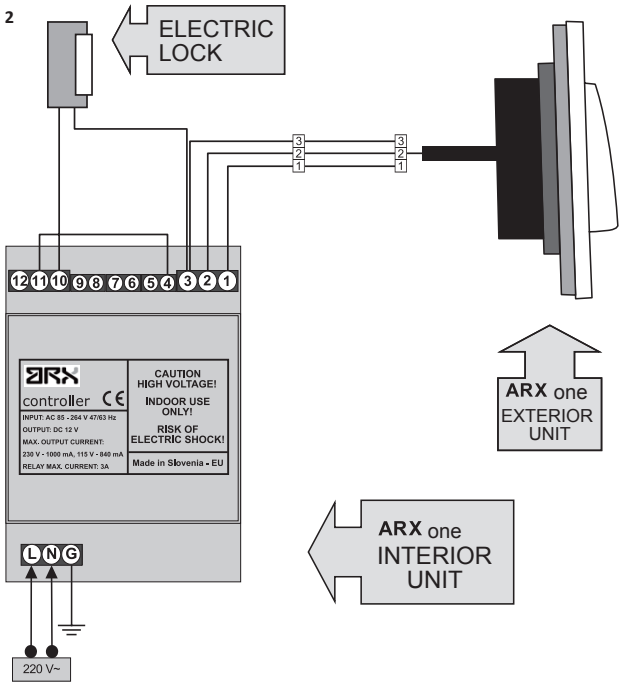
### 13. CONNECTION DIAGRAMS: DIAGRAM 1



#### Rel.1\* explanation:

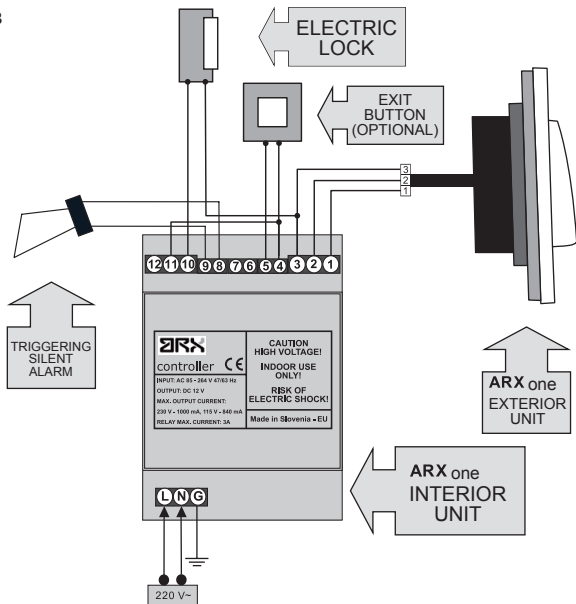
Relay no. 1 is triggered by connecting contact no. 5 to + 12 V. Exit button can be connected to contacts 4 and 5. As long as contact no. 5 is connected to + 12 V, the relay no. 1 is on.

DIAGRAM 2



This diagram shows, how to connect 1 reader and 1 electric lock. In this case electric lock is supplied with power from interior unit. The power can be supplied to the lock from interior unit only if it's consumption is less than 500 mA! If electric lock has higher consumption than 500 mA, additional power supply must be connected (look diagram 4.).

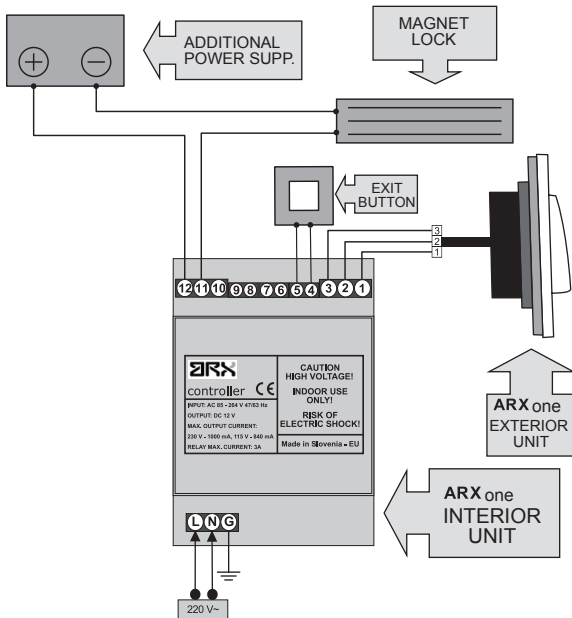
DIAGRAM 3



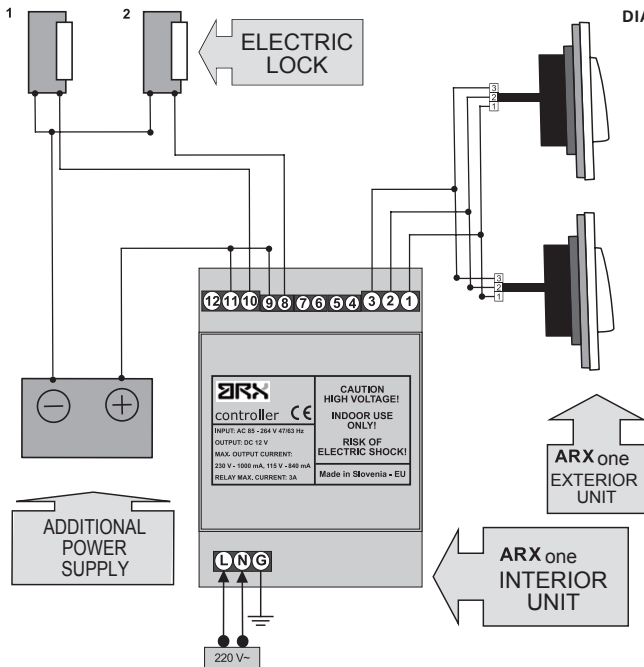
This diagram shows, how to connect 1 reader, 1 electric lock and triggering silent alarm. Electric lock is supplied with power from interior unit. The power can be connected to the lock from interior unit only if it's consumption is less than 500 mA! If electric lock has higher consumption than 500 mA, additional power supply must be connected (look diagram 4 and 5). As an option, the exit pushbutton can be connected to contacts 4 and 5. Optionally relay no. 2 output contacts 8 and 9 can be used, for triggering the silent alarm. House alarm must have this option.



DIAGRAM 4



This diagram shows, how to connect 1 reader and 1 magnet lock. Exit pushbutton must be connected to switch off the magnet while exiting. Only relay 1 is triggered with this button. Magnet locks are sometimes used for glass doors. Magnet lock needs constant power, when it is locked and the power on the lock must be switch off to open the door. Only relay no. 1 has this option, contacts 11 (center) and 12 (normally closed). Because magnet has higher consumption than 500 mA, additional power supply is required!



This diagram shows, how to connect 2 readers and 2 electric locks. Because in this case electric locks have in total higher consumption than 500 mA, additional power supply is required! If 2 readers and 1 electric lock are connected, same way of connection can be used. This diagram is used also if 1 reader and 1 electric lock which has higher consumption than 500 mA is connected.









## 14. MANUFACTURER'S WARRANTY

### WARRANTY CONDITIONS:

The warranty period is 24 months from the day of handover of the product to the final customer. With this statement, the manufacturer of the product, NAVKOM d.o.o., guarantees that in the warranty period the ARX-one (hereinafter: the product) will operate faultlessly and that the materials it is made of are faultless and undamaged.

If the customer finds a fault in the functioning of the product, they can enforce the rights under the warranty on the seller or the manufacturer, who shall issue a claim receipt.

The manufacturer undertakes that in the event of a justified complaint they shall eliminate the malfunction no later than 45 days after the day of complaint. If the malfunction is impossible to repair, the customer will receive a new product from the seller or the manufacturer no later than 45 days after the day of complaint.

### NOTES CONCERNING THE WARRANTY ENFORCEMENT:

The customer assumes all risks and expenses incurred during the transport of the product to the licensed seller or the licensed service.

The warranty is only valid if the warranty certificate is completely filled in by Navkom d.o.o. or a licensed seller of the product or if the circumstances of the purchase are satisfactorily evidenced from other documents. Therefore, please ensure that your name, the name of the seller, the serial number of the product, the year, month and day of the purchase are written in full in the original pro forma invoice or invoice; or see to it that your purchase receipt showing the name of the seller, the date of the purchase and type of product is attached to the original warranty certificate. Navkom d.o.o. reserves the right to refuse to provide repairs free of charge where the submitted warranty certificate is not completely filled in and the above mentioned document (invoice, bill) is not enclosed, or when the data on the warranty certificate are not completed or are illegible. Keep the warranty certificate in a safe place because we cannot issue a duplicate.

### WARRANTY EXTENSION:

In the case that the customer enforced the warranty and the licensed service found the complaint to be justified, the warranty period is extended for the time the product was at service. If the respective product has undergone a major service intervention, or if the product was replaced, a new warranty is issued to the customer for a 24 month period.

### THE WARRANTY CANNOT BE ENFORCED IN THE CASE OF:

1. Any defect caused by improper handling of the product (e.g. the use of the product with the intentions and in a manner not specified in the instructions for use, handling and maintenance etc.).
2. Any defect caused during repair, adaptation, cleaning or any other intervention in the product by any other party except the services licensed by Navkom d.o.o.
3. Any defect caused because of transport, fall, hit etc. after the purchase of the product.
4. Any defect caused by burning/fire, earthquake, flood, shinning, other natural disasters, polluted environment and improper voltage of the electrical supply.
5. Any defect caused by negligent handling or inappropriate storage of the product (e.g. keeping it at high temperatures or high humidity, in the vicinity of insecticides, e.g. naphthalene, or medicines, poisons or chemicals which can cause damage), inappropriate maintenance etc.
6. When the product which was sent to repair is not accompanied by the warranty certificate.
7. Any changes of the warranty certificate concerning the year, month and day of purchase, name of the customer or seller and serial number.
8. When the warranty certificate is not accompanied by the receipt for the item(s) purchased (invoice).

### LIMITS OF LIABILITY:

Navkom d.o.o. does not either represent or guarantee, explicitly or implicitly, anything on behalf of the suppliers or in connection with the contents of written materials. It is in no way liable to warrant the purchased material or its suitability for certain purpose or any consequent injury, accidental damage or immediate damage (including but not limited to the damage or loss of business profits, the termination of business operations and the loss of business information), derived from the use or incapability of use of these printed materials or device.

Some countries do not allow limitations of liability concerning consequential or accidental damage; therefore, it is possible that the above mentioned provision does not apply. In the case that the customer sends the reclaimed product via mail, it is advised to secure the consignment. The seller and the manufacturer are not liable for damage caused during transportation.

Serial number:

Purchase date:

Installation date:

Name of the customer:

Adress of the customer:

Stamp and signature of the seller:

ARX-one was manufactured by:

NAVKOM d.o.o.  
Prijateljjeva 24  
1000 Ljubljana  
Slovenia – EU  
info@navkom.si  
www.navkom.si

Product type:

access control device based on biometric identification