



SmartKey Control Unit
with PIN / Biometric Input

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1 Introduction

Dear Customer,
Responsibility is becoming an ever more important topic, particularly among the owners of handguns. With the use of the SmartLock System from Armatix, you are taking on responsibility. Numerous incidents in the past have shown that the dictate of locking weapons away is not sufficient. Only a weapon that cannot be used by unauthorised persons can be regarded as safe.

This condition is achieved by the use of the Armatix SmartLock system. You are thereby also making a major contribution to the safety of the people around you.
We thank you for the faith placed in us and wish you a great deal of enjoyment with the Armatix SmartLock system.

Your Armatix Team

2 What is SmartLock?

The term SmartLock is used to refer to the system of Armatix products designed for the safety of handguns. This system includes, for example:

- Quicklock (safety elements for insertion into the barrel / chamber of a gun),
- Trustlock (safeguarding of inherited guns by locking elements that may only be inserted and removed by a Trustlock partner),
- Baselock (stationary safeguarding of guns on a special and permanently installed holder).

Common to all components of the SmartLock system is

the principle of safeguarding a gun in such a way that unauthorised use of the gun's function is ruled out, as the forcible removal of the locking element would render the gun unserviceable.

The SmartKey control unit described in this operating manual can be used for all the components of the SmartLock system.

In the case of the Trustlock inherited gun lock, however, only the Trustlock partner has access to the matching control unit for the locking element employed.

3 Safety Precautions

3.1 About this operating manual

This operating manual describes the design, functions and handling of the control unit for components of the SmartLock system. It contains additional information on troubleshooting, storage and disposal, as well as on the ordering of spare parts.

The operating manual forms part of the control unit and of the operating concept. It must therefore always be stored with the control unit in order to be available for consultation at any time before use.

This operating manual is intended for persons authorised to own and handle handguns.

3.1.1 Conventions and symbols

Dangers are associated with the handling of any weapon; particular attention is drawn to these in this operating manual. The hazard warnings are depicted as follows:

DANGER! This pictogram with the word "DANGER!" draws attention to an imminent hazard that can result in immediate death or serious injury if not avoided.

➤ This arrow directs you to the appropriate measure for avoiding this imminent hazard.

Information of particular importance at specific points or which simplifies the handling steps described for the user are highlighted as follows:

INFO This pictogram "INFO" gives you tips and recommendations for the use and handling of the SmartLock system.

Information drawing attention at specific points to measures to protect the environment are highlighted as follows:

ENVIRONMENT This pictogram "ENVIRONMENT" gives you tips and recommendations for the environmentally safe disposal of recyclable materials.

3.2 Safety precautions

DANGER! Mortal danger!
The use of a weapon can create acute dangers for the life and limb of the user, and for third persons and the immediate surroundings.

➤ In order to avoid these dangers, please read the following precautions and the operating manual of the weapon carefully and observe them when handling the weapon.

➤ Use the components of the SmartLock system only when the weapon is unloaded.

3.2.1 General safety precautions

- Ensure that you have read and understood this operating manual completely before using the control unit.
- Store this operating manual together with the control unit at all times.
- Keep the PIN and system password (super PIN) where it is safe from unauthorised access.
- Also keep any supplements or additions to this operating manual together with the control unit.
- The batteries included with the system are not rechargeable. Never try to recharge non-rechargeable batteries. They may explode or catch fire.
- Never try to dismantle batteries. Battery fluids can cause serious injuries.
- Never expose batteries to high temperatures (direct sunlight, heaters or fire). They may explode.
- Never use mixed batteries in the control unit. Type, manufacturer and residual capacity must be identical.
- Observe the instructions in Chapter 11 when disposing of the batteries.

3.3 Intended use

The control unit is used to unlock Armatix QuickLock locking elements.

For the intended use of the control unit, either a PIN is entered or a fingerprint (biometrics) is scanned and compared with a stored print for authorisation.

Use of the control unit as an insertion aid depends on the locking element used. Attention is drawn to the admissibility in the description of the locking element.

3.4 Liability and warranty

Armatix GmbH assumes no liability or warranty for incidents arising due to:

- Failure to observe this operating manual,
- Incorrect use of the control unit,
- Improper handling,

4 Description

This chapter describes the design and function of the SmartKey control unit with PIN/biometric input. Both versions can be used for all QuickLock locking elements.

4.1 SmartKey Control unit with PIN input

4.1.1 Design of the control unit

The control unit consists of a basic element and a coupling. The basic element contains the electronics, a keypad with indicator LED and the battery compartment.

In the standard version, the coupling is permanently connected to the basic element and cannot be removed.

In the WK version with interchangeable coupling, various couplings can be securely connected to the basic element by a clearly audible double locking engagement.



4.1.2 Functions

PIN and system password (super PIN)

A PIN and a system password (super PIN) are stored in the control unit.

- PIN
4-digit numerical sequence. The PIN authorises the user to make intended use of the control unit. The PIN set at the factory is shown on the enclosed card. It can be changed at any time, see Chapter 6.1.2.
- System password (super PIN)
12-digit numerical sequence. The system password is transmitted to a locking element the first time it is unlocked. The locking element can then only be unlocked with the corresponding control unit. The system password set at the factory is shown on the enclosed card. It can be changed at any time, see Chapter 6.1.3.

LED

The LED indicates by flashing, lighting up or changing colour the result of an operation. The flashing sequence is described in the following operating steps.

<ul style="list-style-type: none"> ● 1x short • Acknowledgement flashing • Power supply OK 	<ul style="list-style-type: none"> ● 3x short • Correct input of the PIN or system password
<ul style="list-style-type: none"> ● 3x fast • Correct input of the NEW system password 	<ul style="list-style-type: none"> ● Lit continuously • Remove locking element • Software error
<ul style="list-style-type: none"> ● Fast • Communication between control unit and locking element 	
<ul style="list-style-type: none"> ● 3x short • 4-digit PIN: – 1x or 2x incorrect input 	<ul style="list-style-type: none"> ● 8x fast • Wrong input of previous / new system password
<ul style="list-style-type: none"> ● 10x slow + 3x fast • 4-digit PIN: – 4x incorrect input – Further incorrect inputs 	<ul style="list-style-type: none"> ● Lit continuously • Software error
<ul style="list-style-type: none"> ● 10x • Wrong input of system password 	<ul style="list-style-type: none"> ● Alternating continuously • System password of control unit and system password of locking element do not correspond
<ul style="list-style-type: none"> ● 8x slow → ● 8x fast 	<ul style="list-style-type: none"> • Poor / no contact between control unit and locking element • ON WK version only: Poor / no contact between control unit and pluggable coupler

Alternating flashing sequence and/or change of colour: Incorrect inputs or fault in control unit. For further information, see Chapter 7.

Coupling

- The coupling is the interface between control unit and locking element.
- The plug contact for the locking element is at the tip of the coupling.

4.2 SmartKey Control unit with biometric input (fingerprint)

4.2.1 Design of the control unit

The control unit consists of a basic element and a coupling. The basic element contains the electronics, a button, a finger scanner with indicator LED and the battery compartment.

In the standard version, the coupling is permanently connected to the basic element and cannot be removed.

In the WK version with interchangeable coupling, various couplings can be securely connected to the basic element by a clearly audible double locking engagement.



4.2.2 Functions

Button

Pressing the button switches on the control unit. The button is also used to activate various administrative functions (e.g. learning of additional "user fingerprints").

Scanner

The scanner is used to read in the biometric inputs (2 administrator fingerprints and max. 8 user fingerprints).

Administrator fingerprints must be "learned" during commissioning of the control unit, see Chapter 6.2.1. Administrator fingerprints are authorised to unlock locking elements and to use administrative functions of the control unit.

User fingerprints are "taught" by the administrator after activation of the control unit, see Chapter 6.2.2. User fingerprints are only authorised to unlock a locking element.

System password (super PIN)

12-digit numerical sequence. The system password is transmitted to a locking element the first time it is unlocked. The locking element can then only be unlocked with the corresponding control unit.

The system password set at the factory is shown on the enclosed card. It can be changed at any time, see Chapter 6.2.4.

LED

The LED indicates by flashing, lighting up or changing colour the result of an operation. The flashing sequence is described in the following operating steps.

<ul style="list-style-type: none"> ● 1x short • Power supply OK • Finger database deleted 	<ul style="list-style-type: none"> ● 2x short • Acknowledgement flashing
<ul style="list-style-type: none"> ● 3x short • Successful scanning during learning 	<ul style="list-style-type: none"> ● Slow • Control unit ready for operation, perform finger scan • Finger not recognised, repeat finger scan
<ul style="list-style-type: none"> ● Fast • Communication between control unit and locking element 	<ul style="list-style-type: none"> ● 2x fast • Authorised finger recognised
<ul style="list-style-type: none"> ● Lit continuously • Remove locking element 	
<ul style="list-style-type: none"> ● Uniformly • Scanning failed • Finger not recognised • No authorisation 	<ul style="list-style-type: none"> ● Lit continuously • Ready display "Delete finger database"
<ul style="list-style-type: none"> ● Fast • No administrator finger learned 	<ul style="list-style-type: none"> ● Slow • No user finger learned
<ul style="list-style-type: none"> ● Short → ● Faster 	<ul style="list-style-type: none"> • Successful authorisation by administrator finger
<ul style="list-style-type: none"> ● 8x slow → ● 8x fast 	<ul style="list-style-type: none"> • Poor / no contact between control unit and locking element • ON WK version only: Poor / no contact between control unit and pluggable coupler

Alternating flashing sequence and/or change of colour: Incorrect inputs or fault in control unit. For further information, see Chapter 7.

Coupling

- The coupling is the interface between control unit and locking element.
- The plug contact for the locking element is at the tip of the coupling.

4.3 Scope of supply

The scope of supply of the control unit generally comprises the basic configuration. The configuration of the control unit can differ, depending on the accessory parts.

Basic configuration

- Control unit with straight coupling
- Operating manual
- Card with PIN / super PIN
- Batteries (4x AAA / Micro) included, alkaline batteries are recommended as replacements

Accessories

- Angled couplings
- Extended straight couplings
- Programming adapter

5 Commissioning

5.1 Power supply of the control unit

ENVIRONMENT The national regulations on the disposal of old electrical and electronic appliances and batteries must be observed and obeyed. The batteries, in particular, contain hazardous substances and must not be disposed of in the domestic refuse.

5.1.1 Inserting / replacement of the batteries

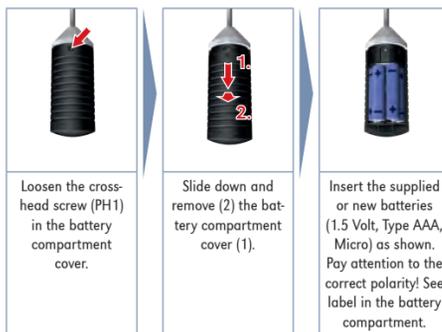
The control unit is operated with 4 batteries of type (AAA/ Micro). The battery compartment is located on the rear side of the basic element of the control unit. Proceed as follows to insert / replace the batteries (assembly in the reverse order).

5.1.2 Check the power supply

When any button is pressed, the LED lights up briefly green (acknowledgement flashing): The power supply is OK.

When any button is pressed, the LED does not light up (no acknowledgement flashing):

Check batteries for correct polarity and contact.



6 Operation

6.1 Control unit with PIN input

INFO Before a weapon can be unlocked using the control unit, the power supply must be checked or established as described in Chapter 5.1.

There must be constant contact between control unit and locking element throughout the unlocking process. If the operating loses contact with the locking element even for a moment, the locking element will be locked again. The PIN authorisation has to be started again. If the PIN is entered incorrectly 3x, the control unit is permanently locked.

In this case you have to enable the previous PIN again or change the PIN, see Chapter 6.1.2.

To interrupt the PIN input (e.g. after an incorrect input), wait approx. 4 seconds. During the interruption phase, the LED flashes red 8x fast. The control unit is then ready again for the input of the PIN.

With some unusual barrel geometries it is possible that the locking element can jam at the transition from the chamber to the barrel. This can be avoided by pulling the locking element out more slowly, or by pushing it back again slightly.

6.1.1 Unlocking the locking element

- Insert the coupling of the control unit into the locked locking element until it engages noticeably.
- Enter the 4-digit PIN. Each press of a button is acknowledged by the LED flashing green.

Correct input

The LED flashes briefly 3x green, then flashes fast and finally shows a steady green light.



Release the locking mechanism by pressing the control unit slightly against the locking element, then pull the locking element carefully out of the barrel. If the locking element cannot be released, repeat the whole procedure.

1x or 2x incorrect inputs

LED flashes 3x briefly red.

- Enter the correct PIN (see card with PIN / super PIN) and then proceed as described in section "Correct input".

3x incorrect input

The control unit is locked. After further inputs, even of the correct PIN, the locking element is not unlocked.

- Enable the PIN as described in Chapter 6.1.2.1 and repeat the unlocking procedure.

6.1.2 Enable / change PIN of the control unit with PIN input

6.1.2.1 Enable PIN

If the PIN is entered incorrectly three times, the control unit is locked. After the fourth incorrect input, the LED flashes red 10x slowly and 3x fast. To enable and retain your previous PIN, proceed as follows:

- Press button **1** and hold depressed until the LED lights up green (after approx. 3 seconds).
- Release the button. The LED flashes green 3x.
- Enter the 12-digit system password (see card with PIN / super PIN).

Correct input of the system password (super PIN)

The LED flashes green 3x.

- Wait approx. 10 seconds and then enter the current PIN correctly. The LED again flashes green 3x.

Incorrect input of the system password (super PIN)

The LED flashes alternately green - red 10x.

- Start the PIN enabling process again and enter the 12-digit system password correctly (see card with PIN / super PIN).

6.1.2.2 Change PIN

INFO Note the new PIN. Keep the new PIN in a safe place out of the reach of unauthorised persons and separately from the control unit.

If there is a risk that unauthorised persons have found out the PIN, it is expedient to change the current PIN.

- To change the PIN, proceed as described under Chapter 6.1.2.1 up to "Correct input of the system password." The LED flashes 3x green.
- Then enter your new PIN. After complete input, the LED flashes green 3x.

From now on, use your new PIN to unlock the locking elements.

6.1.3 Change system password (super PIN)

INFO Before you change your system password (super PIN), all locking elements to which the existing system password has been transmitted must be reset to their delivery condition (see description of the corresponding locking elements under point: "Resetting to the delivery condition").

Note the new system password.

Keep the new system password in a safe place out of the reach of unauthorised persons.

Changing of the 12-digit system password (super PIN) is necessary if

- unauthorised persons have found out the super PIN set at the factory, or

Resetting of the locking elements is not necessary if

- you require additional control units which unlock the same weapons (club or service weapons), or
- You have lost your control unit and need to transfer the system password to the new control unit.

6.1.3.1 Change system password (super PIN):

- Press button **3** and hold depressed until the LED lights up green (after approx. 3 seconds).
- Enter the old system password (see card with PIN / super PIN) of the control unit.

Correct input of the old system password

The LED flashes green 3x.

- Enter the new system password.

If the new system password is entered correctly, the LED flashes fast green 3x.

- Immediately confirm the new system password by entering again.

If the new system password is entered correctly again, the LED flashes fast green 3x.

The system password has been changed.

Incorrect input of the old or new system password

The LED flashes fast red 8x.

- The change is aborted. Start the "Change system password (super PIN)" process again and enter the 12-digit system password **correctly** (see card with PIN / super PIN).

6.2 Control unit with biometric input (fingerprint)

INFO Before a weapon can be unlocked using the control unit, the power supply must be checked or established as described in Chapter 5.1 "Power supply to the control unit". For the use of the functions, an administrator finger must first be taught in with two different fingerprints.

6.2.1 Teaching in an administrator finger

In delivery condition, the "fingerprint" database is empty. In order to achieve a high level of safety, two administrator fingers have to be taught in. Each finger has to be recorded 4x in order to guarantee the most reliable possible recognition. Press the button of the control unit briefly. After the green acknowledgement flash, the LED starts to flash fast orange.

- Now pass the first administrator finger slowly and smoothly across the scanner from the coupling towards the button.



Successful scan

The LED flashes green briefly 3x. The scan is saved.

- Repeat this procedure 3 further times. After each successful scan, the LED flashes green briefly 3x. After the fourth successful scan, administrator finger 1 has been taught in.

Without interrupting the procedure, repeat the process for a second administrator finger as described above.

The LED goes out. Administrator finger 2 has been successfully taught in.

The control unit is ready for operation.

Unsuccessful scan

The LED flashes red.

- Repeat the scan until the LED flashes green 3x.

6.2.2 Teaching in a user finger

INFO User fingers can only be taught in at the control unit after authorisation by an administrator finger/print. A total of 8 user fingers can be taught in.

- Press the button and hold depressed until the LED starts to flash slowly orange.
- Authorise the control unit with one of the two administrator fingerprints. The LED flashes briefly green, then flashes faster orange.

Teach in a user finger (a further finger of the administrator or finger of another person).

- Pass the corresponding finger slowly and smoothly across the scanner from the coupling towards the button.



If the LED flashes briefly green 3x, the scan was successful and the fingerprint has been saved.

- Repeat this procedure 2 further times.

User finger 1 taught in successfully

The LED flashes green briefly 3x. 3 scans were saved.

- Teach in further user fingers as described above.

Unsuccessful scanning of user fingers

The LED flashes red.

- Repeat the scan until the LED flashes green 3x.

6.2.3 Unlocking the locking element

INFO There must be constant contact between control unit and locking element throughout the unlocking process. If the operating loses contact with the locking element even for a moment, the locking element will be locked again. The PIN authorisation has to be started again. With some unusual barrel geometries it is possible that the locking element can jam at the transition from the chamber to the barrel. This can be avoided by pulling the locking element out more slowly, or by pushing it back again slightly.

- Insert the coupling of the control unit into the locked locking element until it engages noticeably.
- Press the button of the control unit with biometric input briefly once. The LED flashes slowly green.

- Pass the user finger slowly and smoothly across the scanner from the coupling towards the button.



If the LED flashes orange fast after pressing the button, two administrator fingers still have to be taught in, see Chapter 6.2.1.

Successful scan

If the LED flashes briefly green, the scan was successful and the fingerprint was recognised.

The LED then flashes fast green, then changes to a steady green light.



Release the locking mechanism by pressing the control unit slightly against the locking element, then pull the locking element carefully out of the barrel. If the locking element cannot be released, repeat the whole procedure.

Unsuccessful scan

If the LED flashes red after the scan, either the fingerprint was not recognised or the user has no authorisation.

- Repeat the scan or have an authorised person carry out the scan until the LED flashes briefly green.

6.2.4 Change system password (super PIN)

INFO

Before you change your system password (super PIN), all locking elements to which the existing system password has been transmitted must be reset to their delivery condition (see description of the corresponding locking elements under point: "Resetting to the delivery condition").

If the system password (super PIN) of the control unit with biometric input is changed, the old system password is always overwritten.

Note the new system password.

Keep the new system password in a safe place out of the reach of unauthorised persons.

To change the system password of the control unit with biometric input you need an control unit with PIN input and a programming adapter. The programming adapter is available as an accessory.

- Connect the coupling of the control unit with biometric input to the coupling of the control unit with PIN input via the programming adapter.
- Press button **7** on the numeric keypad of the control unit with PIN input and hold depressed until the LED lights up green (after approx. 3 seconds).
- Enter the new system password for the control unit with biometric input at the control unit with PIN input.
- Correct input of the system password (super PIN)** The LED of the control unit with PIN input flashes fast green 3x.

- Immediately confirm the new system password by entering again.
- If the new system password is entered correctly again, the LED of the control unit with PIN input flashes green.

The system password has been changed.

- After successful changing of the system password, disconnect the control units and the programming adapter.

- Incorrect input of the new system password (super PIN)** The LED flashes fast red 8x.

- The change is aborted. Start the "Change system password (super PIN)" process again and enter the 12-digit system password **correctly** (see card with PIN / super PIN).

6.2.5 Delete "fingerprint" database

INFO

If the "fingerprint" database is deleted, all the saved administrator and user fingerprints are deleted. Administrator and user fingers still needed have to be taught in again, see Chapter 6.2.1 and Chapter 6.2.2

- Press the button and hold depressed until the LED lights up red.
- Pass the administrator finger slowly and smoothly across the scanner from the coupling towards the button.

Successful scan

If the LED flashes briefly green, the scan was successful and the data of all administrator and user fingerprints have been deleted. The control unit is in its delivery condition again.

Unsuccessful scan

If the LED does not flash after the scan, the fingerprint was not recognised. The data of all administrator and user fingerprints were **not** deleted.

- Repeat the scan until the LED flashes briefly green.

7 Malfunctions and Remedies

This chapter describes possible malfunctions that may occur and corresponding remedial measures that the user can carry out himself.

If the malfunction cannot be remedied with the measures described, please contact your dealer or the manufacturer.

Malfunction	Cause	Remedial measure
No acknowledgement flash of the LED when a button is pressed.	Batteries not inserted correctly. No battery contact. Batteries discharged.	Insert the batteries correctly (see label in battery compartment). Clean contacts. Replace batteries (Type AAA, Micro), see Chapter 5.1.1.
LED flashes red fast after input of the PIN.	PIN entered incorrectly 3x. Any button pressed too often. Control unit is locked.	Enable the control unit (see Chapter 6.1.2).
LED is lit red or green continuously. The locking element can nevertheless not be unlocked and removed.	Software fault Individual battery with insufficient capacity or incorrectly inserted.	Reset the control unit ➤ Remove the batteries, wait approx. 5 seconds, insert the batteries again, observing the correct polarity (see label in battery compartment).
The LED flashes alternately red and green after input of the PIN and a subsequent pause of 2 seconds.	Control unit system password and locking element system password do not correspond.	Use the appropriate control unit. Reset the locking element to the delivery condition (see operating manual of the locking element).

8 Cleaning

Clean the control unit with a dry, lint-free cloth (e.g. micro-fibre cloth). Do not clean the control unit with water or other liquids. Never clean the control unit with scouring powder or aggressive cleansing agents. Do not immerse the control unit in water.

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Further product information or technical support can be obtained from the contact data.

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9 Storage

Always store the control unit separately from the card with PIN / super PIN and out of the reach of unauthorised persons.

With regular use, store the control unit at a temperature of around 20°C. Note that the performance of the batteries deteriorates sharply at temperatures below 0°C and that the function of the control unit is then limited.

If the control unit is not used for a prolonged period, remove the batteries to prevent destruction of the control unit by leaking batteries.

10 Spare Parts and Repairs

The control unit is a highly developed electronic component. Repairs may only be carried out by an authorised dealer or by the manufacturer.

Armatix GmbH assumes no liability or warranty if unauthorised persons nevertheless try to carry out repairs.

Various couplings are available as accessories or spare parts for the WK version of the control unit. For other spare parts, please contact your dealer.

11 Disposal

The national regulations on the disposal of old electrical and electronic appliances and batteries must be observed and obeyed.

The batteries, in particular, contain hazardous substances (acids, heavy metals) and must not be disposed of in the domestic refuse.