user guide

x1R

Electronic lock for security doors

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Dear Customer,

The door is equipped with an electronic lock with a motor–driven bolt closing mechanism with built–in digital control.
FIAM's research and experience have led to the development of a product that offers the state of the art in terms of security and reliability. To find out all about this product and make the best use of all it has to offer, read this booklet and keep it handy. It will come in useful again whenever you want to reprogram or check your access, as well for doing ordinary maintenance and solving any problems.
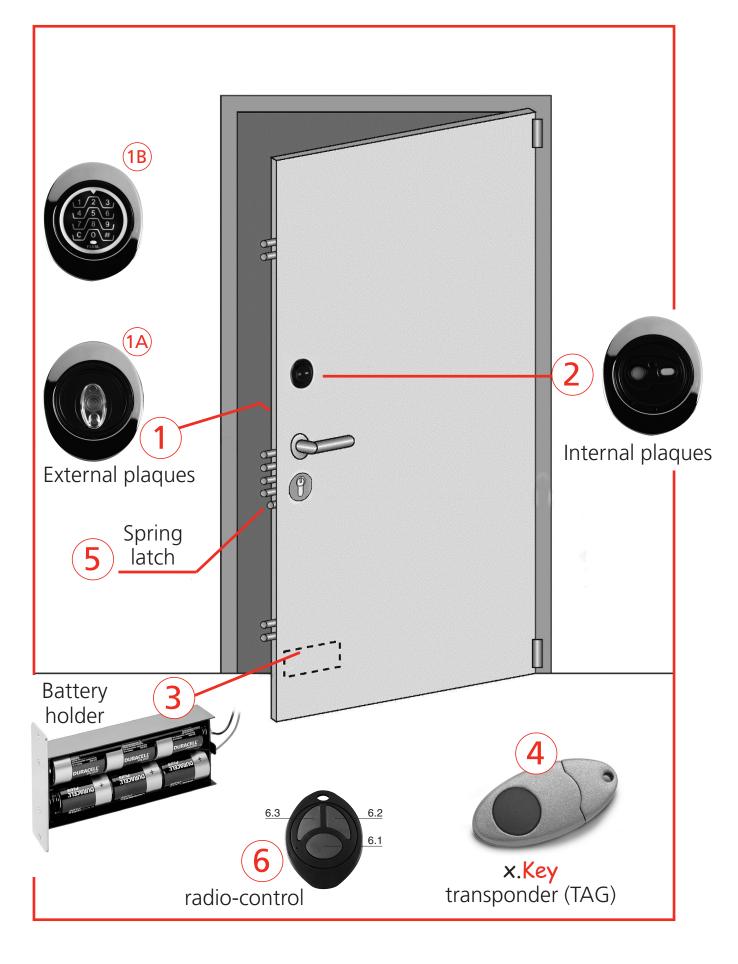
WHAT IS YOUR X1R ELECTRONIC LOCK AND HOW DOES IT FUNCTION:

Your door is an intelligent door. That is because the x1R is a lock with more than the traditional key mechanism, although that is also always available just in case there is a power cut or any electric or electronic breakdown or damage, as it also offers electronically controlled management of the opening of your security door. The door is locked automatically as soon as it is closed.
This concept summarises countless performances that you can get from the x1R: these will be illustrated simply and intuitively in the pages of this manual.

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(1B)

(1A)

(1) External plaques

(2) Internal plaques

(5) Spring latch

Battery holder

(3)

(4)

6.3   6.2
     6.1

(6) radio-control

x.Key
transponder (TAG)

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3

① **EXTERNAL PLAQUE**

This term is used to define the electronic checks that use various technologies to allow the user access to the room using an encrypted "code" that generates an electrical impulse that allows the door to be opened. The lock can be controlled using two different access systems:

①A TAG (Transponder – RFID).
   • Instruction from page 5 to page 12.

①B Numerical Keypad with built-in TAG reader.
   • Instruction from page 13 to page 20.

In addition the door can be controlled
using a radio-control ⑥.
   • Instruction from page 21 to page 25.

Follow the specific instructions for the system fitted on your door.

NOTE:
For both versions, circuits or other components are housed in the external plaques, and if these are intercepted in case of an attempted violation, they can cause the lock to open.

INTERNAL PLAQUES:

The internal plaque ② houses two keys for opening and closing the lock by means of a motor built into it.
Push the green to open the door. When the (smaller) black key is pushed, this causes the linkages to move out quickly, and consequently the door is closed.
However, for normal use for which the lock is programmed in the factory (operating mode 1) x1R independently and automatically sees to making your door safe, guaranteeing maximum peace of mind at all times.
The two keys are also used for programming the operating functions. This plaque is equipped with an LED and a buzzer to provide an acoustic signal.

NOTE:
To activate the internal plate in the first installation phase or in the event of changing it, enter into programming as described on page 9, point A.

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BASIC PROGRAMMING

⚠ **Read this chapter carefully to ensure that your security door functions correctly and guarantees your maximum security.**

Both the manufacturer and the installer of your door have used standardised TAG to run the preliminary and final on-site tests. Now, in order to guarantee your maximum security, you must OF NECESSITY personalise your electronic keys ④ .
If your needs so demand, up to a maximum of 128 TAG keys can be programmed.

Once you have completed your personal registration, the keys used by your door's manufacturer and installer will be cancelled automatically from the electronic memory, so no unauthorised person will be able to access your home. The ones that you have registered will be the only keys capable of opening your lock.

PRELIMINARY PHASE: ACTIVATING THE NEW KEYS
You must register at least one of the TAG keys supplied as the "master key", while all the others will be registered at the level of "service".

The TAG "master keys" enable their holder to:
• open the lock
• access the programming
• change the functioning mode
• activate new master keys
• activate and deactivate the service keys
• reset the memory completely

Once they have been activated, the "service" TAG keys enable their holder to:
• open the lock

> NOTE:
> We strongly recommend that you register at least two TAG "master keys", as they are the only ones that enable their holder to access the programming function, so make any changes to the list of activated TAG keys.
> If your master key is lost or stolen, you can use your duplicate TAG master key to waste no time changing the complete list of activated keys, including the service keys, so that the old master key that was lost or stolen cannot be used to open your door any more.

To facilitate transport and have it instantly available when the need arises, you can house the mechanical key used to open your door in case of a power cut or electric or electronic breakdown inside the TAG. If the electronic keys that have been supplied to you are not suitable for this option, ask your dealer for more information.

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BASIC PROGRAMMING

ACTIVATING THE TAG "MASTER KEY":

⮑ access the "programming" facility

A. with the door open, press the spring latch ⑤, with one finger and keep it pressed, then bring any TAG (of those supplied) close to the receiver located on the external plaque ① (fig. 1).

B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

⚠ **The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.**

C. so, while keeping the spring latch ⑤, constantly pressed all the time, now press the black and green buttons located on the internal plaque ② (fig. 2) at the same time and keep them pressed for at least two seconds. The acoustic alarm will emit one long tone to confirm.

D. now chose any of the TAG x.Keys supplied and bring it close to the receiver located on the external plaque ①. The acoustic alarm will emit two short tones to confirm programming of the TAG as the "master key".

⮐ release the pressure on the spring latch ⑤ to exit the programming mode.

ACTIVATING THE "SERVICE" TAGS:

⮑ access the "programming" facility

A. With the door open, hold spring latch ⑤ down with one finger and bring the TAG programmed before at a "master" level near the receiver on the external plaque ① (fig. 1).

B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

⚠ **The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.**

C. so, while keeping the spring latch ⑤ constantly pressed all the time, now press the black button located on the internal plaque ② (fig. 3). and keep it pressed for at least one second: the buzzer emits just one short tone (1 beep). Every TAG that you bring close to the receiver (fig. 1) will be registered at the "service" level. The buzzer confirms programming of each TAG by means of a short sound (1 beep). Once the programming phase has been completed, proceed to enabling all the TAGs programmed at a "service" level, by holding down for at least one second the black button on internal plaque ② (fig. 3). The buzzer emits two brief sounds (2 beeps).

NOTE:
If at the start of phase C the buzzer emits TWO short sounds (2 beeps) press the black key again so that the buzzer only emits ONE short sound (1 beep), confirming that the lock is now set up for programming new "service" TAGS

⮐ release the pressure on the spring latch ⑤ to exit the programming mode.

FIG.1

FIG.2

FIG.3

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NOTE:
deciding about to whom you will entrust your master TAG and service TAG is entirely a question of the hierarchies you intend to activate. Considering that the master TAG , as we already pointed out, both has the ordinary function of opening the door and is capable of accessing every type and degree of programming level, it must obviously be used and kept by the home owner.

In addition, remember that the master TAG can also exclude access for one or more service TAG , while the opposite cannot happen.

For example, the owner of the average family home may want to entrust a service TAG to the maid.

So if you want to block free access during a period when you are away from home, all you have to do is disable the consent for the TAG held by your maid to be used from the electronic memory. Although she still has the key, it will be deactivated. You will be able to reactivate its use if necessary when you return (see page 10).

FIG.1

ACTIVATING OTHER "MASTER TAGS":

⟳ access the "programming" facility

A. with the door open, press the spring latch ⑤, with one finger and keep it pressed, then bring the transponder previously registered as the "master TAG " close to the receiver located on the external plaque ① (fig. 1).

B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

⚠ **The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.**

FIG.3

C. so, while keeping the spring latch ⑤, constantly pressed all the time, press the black button located on the internal plaque ② (fig. 3) and keep it pressed for at least one second: The buzzer emits two short sounds (2 beeps).

NOTE:
If the buzzer only emits one short sound (1 beep), press the black key again so that the buzzer emits TWO short sounds (2 beeps) confirming that the lock is now set up for programming new "master" level TAGS.

D. The TAG moved close to the reader on the external plaque ① (fig. 1) is therefore programmed at "master2 level. As long as it remains in this status, or until spring latch ⑤ is released, any other TAG that is brought near the reader will be programmed at "master" level.

⟲ release the pressure on the spring latch ⑤ to exit the programming mode.

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HOW IT WORKS

The FIAM x1R electronic key functions very simply:

From outside the home, when you bring the TAG x.Key close to the reading area located on the external plaque ① (fig. 4)), the lock will open and you can access the interior. If the functioning criteria have been programmed to do this, the door will be locked automatically when you close the door.

There are other options for exiting through the door:

- press the the green key located on the internal plaque (Fig. 5)
- press a remote button (optional) which can be located also remote from the door (for example, the interphone key or an ordinary button)
- through the mechanical key

> NOTE:
> remember that the FIAM x1R electronic lock can function always and in any case, including critical cases, from both outside and inside, with the aid of the mechanical key, which can be transported inside the TAG.

FUNCTIONING METHODS

The functions and performances of the FIAM x1R electronic lock can be programmed in five different modes:

Mode 1: when the command to open is given, the lock withdraws the bolts and holds back the spring latch, giving access to the interior. Once it has opened the lock and the door, the spring latch will be released. Later, when the door is closed again, the lock will automatically shoot the bolts.

Mode 2: when the command to open is given, the lock withdraws the bolts but not the spring latch, which must be held back with the handle or the mechanical key to give access to the interior. Later, when the door is closed again, the lock will automatically shoot the bolts.

Mode 3: when the command to open is given, the lock withdraws the bolts and holds back the spring latch, giving access to the interior. Once it has opened the lock and the door, the spring latch will be released. Later, when the door is closed again, the lock will not automatically shoot the bolts. This means that the lock must be closed mechanically.

Mode 4: when the command to open is given, the lock withdraws the bolts but not the spring latch, which must be held back with the handle or the mechanical key to give access to the interior. Later, when the door is closed again, the lock will not automatically shoot the bolts. This means that the lock must be closed mechanically.

Mode 5: when the command to open is given, the lock withdraws the spring latch only, giving access to the interior. In this functioning mode, the bolts can only be opened and closed using the mechanical key in the cylinder.

> NOTE:
> you can monitor and check the condition of your door's functions at any moment: all you have to do is press the green and black keys on the internal plaque ② at the same time: the buzzer will emit a number of tones (beeps) equivalent to the mode chosen from the list on this page.

FIG.4

FIG.5

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CHANGING AND SETTING THE FUNCTIONING MODE

When the lock comes out of the factory, it is set to function in mode 1. To change the functioning mode, you must:

⟳ access the "programming" facility

A. with the door open, press the spring latch ⑤ with one finger and keep it pressed, then bring the "master" TAG close to the receiver located on the external plaque ① (fig. 1).

B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.

C. so, while keeping the spring latch ⑤ constantly pressed all the time, now press press the green key located on the internal plaque ② (fig 6) for at least one second to modify the functioning mode. The buzzer emits a number of short sounds (beeps) that corresponds to the operating mode.

D. Each time the green key is pressed you move on to the next mode. For example: If when the green key is pushed the buzzer emits three short sounds (three beeps), this means that the lock is in mode 3, in which case, to change to mode 5, simply press the green key twice.

NOTE:
the functioning mode can only be changed by increasing it, i.e., from 1 to 2, from 2 to 3 and so on. After mode 5, you can return to mode 1 by pressing button green again.

⟲ release the pressure on the spring latch ⑤ to exit the programming mode.

FIG.1

FIG.6

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BASIC PROGRAMMING

MANAGING THE TAG KEYS

The electronics used by the FIAM x1R locks enables you to manage all the TAG used simply, rapidly and in complete security.
You can deactivate and reactivate the "service" TAG , also temporarily, add or remove TAG from the list in use or cancel all of them.

To deactivate ALL the "service" TAG , you must:

⟳ access the "programming" facility

A. with the door open, press the spring latch ⑤ with one finger and keep it pressed, then bring the transponder registered as the "master TAG " close to the receiver located on the external plaque ① (fig. 1).
B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

the lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.

C. so, while keeping the spring latch ⑤ constantly pressed all the time, now press the black button located on the internal plaque ② (fig. 3) for at least one second so that the buzzer emits 1 short tone (1 beep). Warning: All the "service" TAGS are now disabled for opening the lock, but are still stored in the electronic memory.

This operation simultaneously disables all the "service" numerical codes as well and all the radio-controls in use.

⟲ release the pressure on the spring latch ⑤ to exit the programming mode.

To reactivate ALL the "service" TAG , you must:

⟳ access the "programming" facility

A. with the door open, press the spring latch ⑤ with one finger and keep it pressed, then bring the transponder registered as the "master TAG " close to the receiver located on the external plaque ① (fig. 1).
B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.

C. so, while keeping the spring latch ⑤ constantly pressed all the time, now press the black button located on the internal plaque ② (fig 3)) for at least one second so that the buzzer emits 2 short tones (2 beeps). All the "service" TAGS in the electronic memory have now been re-enabled to open the lock

This operation simultaneously re-enables all the "service" numerical codes as well and all the radio-controls in use.

⟲ release the pressure on the spring latch ⑤ to exit the programming mode.

FIG.1

FIG.3

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BASIC PROGRAMMING

To definitively cancel ONE or MORE transponder TAG , you must:

↪ access the "programming" facility

A. with the door open, press the spring latch ⑤ with one finger and keep it pressed, then bring the transponder registered as the "master TAG " close to the receiver located on the external plaque ① (fig. 1).

B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.

C. so, while keeping the spring latch ⑤ constantly pressed all the time, bring the TAG keys to be cancelled close to the reader located on the external plaque ① (fig. 1), one at a time. Each time a TAG ④ is cancelled from the memory list, the buzzer will confirm by emitting 3 short tones (3 beeps).

↩ release the pressure on the spring latch ⑤ to exit the programming mode.

FIG.1

To definitively cancel ALL the TAG keys (complete reset), you must:

↪ access the "programming" facility

A. with the door open, press the spring latch ⑤ with one finger and keep it pressed, then bring the transponder registered as the "master TAG " close to the receiver located on the external plaque ① (fig. 1).

B. the acoustic alarm will emit a scale of rising sounds to tell you that the lock is in the "programming" mode.

The lock will only remain in programming mode as long as you keep the spring latch pressed. If you release the spring latch, you will automatically leave the programming mode.

C. so, while keeping the spring latch ⑤ constantly pressed all the time, now press green and black buttons located on the internal plaque ② (fig. 2) at the same time for at least two seconds. The acoustic alarm will emit one long tone to confirm.

This operation simultaneously deletes all the numerical codes as well and all the radio-controls in use.

↩ release the pressure on the spring latch ⑤ to exit the programming mode.

FIG.2

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BASIC PROGRAMMING

SAFETY BLOCKAGE OF THE KEYS

The keys on the internal plaque can be rendered inactive. Under normal operating conditions these are used for opening (green) and closing (black) the door using the motorisation on the lock.
This is done to prevent accidental or involuntary opening, which may detract from the security of your home. The presence of children in the home for example, is one of the conditions that may mar security.

To deactivate the keys:
A. Hold the green and black keys on the internal plaque ② (fig. 7) down simultaneously for at least ten seconds.
B. When the keys are released they are inactive.

To reactivate the keys:
A. Hold the green and black keys on internal plaque ② (fig. 7) down simultaneously for at least ten seconds.
B. When the keys are released they work again normally.

"DEADBOLT LOCKING" WITHOUT ENTERING INTO PROGRAMMING

By pressing the green and black buttons on the internal plate ② (fig. 7) simultaneously for five seconds, the "deadbolt locking" function is activated (way described on page 8): in this mode the lock does not automatically re-close the safety bolts at every approach.
To return to the previously set functioning mode, repeat the same operation.

BATTERIES

According to the system installed by your installer, your x1R electronic lock will function with alkaline batteries or will be powered by mains-rechargeable batteries.
In both cases, the batteries are housed at the edge of the door and all you have to do, to access them to replace or maintain them, is loosen the screws located on the front of the battery holder ③ and take it out with care (fig. 8).
When replacing the batteries, comply with the indications and the technical data listed below in this manual, then replace the battery holder, taking care not to damage the electricity cables, and fix it with the screws provided.

Alkaline batteries: 1,5V Ni-Cd Type D
Rechargeable batteries: 1,2V Ni-Mh Type D

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