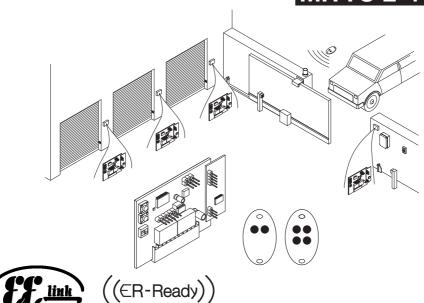
ROLLING-CODE WITH CLONING RADIO CONTROL SYSTEM



CLONIX1-2

MITTO 2-4 433MHz



INSTALLATION AND USER'S MANUAL





AZIENDA CON SISTEMA DI GESTIONE
INTEGRATO CERTIFICATO DA DNV

= UNI EN ISO 9001:2000 =
UNI EN ISO 14001:2004

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Thank you for buying this product, our company is sure that you will be more than satisfied with the product's performance. The product is supplied with a "Warnings" leaflet and an "Instruction booklet". These should both be read carefully as they provide important information about safety, installation, operation and maintenance. This product complies with the recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 2004/108/ EEC and 73/23/EEC (and subsequent amendments).

GENERAL SAFETY

WARNING! An incorrect installation or improper use of the product can cause damage to persons, animals or things.

- The "Warnings" leaflet and "Instruction booklet" supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.
- Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children's reach.
- Keep the instructions together with the technical brochure for future reference
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- The Company declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documentation.
- Do not install the product in explosive atmosphere.
- The construction components of this product must comply with the following European Directives: It complies with the 2004/108/EEC, 1999/5/CEE, European Directive and subsequent amendments. As for all non-EEC countries, the above-mentioned standards as well as the current national standards should be respected in order to achieve a good safety level.
- The Company declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.
- The installation must comply with the provisions set out by the following European Directives:It complies with the 2004/108/ EEC, 1999/5/CEE, European Directive and subsequent amendments.
- Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.
- The Company declines all responsibility with respect to the automation safety and correct operation when other manufacturers' components are used.
- Only use original parts for any maintenance or repair operation
- Do not modify the automation components, unless explicitly authorised by the company.
- Instruct the product user about the control systems provided and the manual opening operation in case of emergency.
- Keep radio control or other control devices out of children's reach, in order to avoid unintentional automation activation.
- The user must avoid any attempt to carry out work or repair on the automation system, and always request the assistance of qualified personnel.
- Anything which is not expressly provided for in the present instructions, is not allowed.

1) GENERAL OUTLINE

The Clonix receiver combines the characteristics of utmost safety in copying variable code (rolling code) coding with the convenience of carrying out transmitter "cloning" operations thanks to an exclusive system.

Cloning a transmitter means creating a transmitter which can be included automatically within the list of the transmitters memorised in the receiver, either as an addition or as a replacement of a particular transmitter.

Therefore it will be possible to remotely program a large number of additional transmitters, or for example, replacement transmitters for those which have been lost, without making changes directly to the receiver. Cloning by replacement is used to create a new transmitter which takes the place of the one previously memorised in the receiver; in this way the lost transmitter is removed from the memory and will no longer be usable

When coding safety is not a decisive factor, the Clonix receiver allows you to carry out fixed code additional cloning, which although abandoning the variable code, provides a high number of coding combinations.

Using clones when there is more than one receiver (as in the case of communal buildings),

and especially when a distinction is to be made between clones to be added to or replaced in individual or collective receivers, could turn out to be rather difficult. The Clonix receiver cloning system for communal buildings makes it particularly easy to solve the problem of clone storage for up to 250 individual receivers.

2) RECEIVER TECHNICAL SPECIFICATIONS

Power supply : range 12 to 28V= range 16 to 28V~

Antenna impedance : 50 Ohms (RG58)
Relay contact : 1A - 33V~, 1A - 24V=
Max. n° of radio transmitters that can be memorized:

Receiver version	N° of radio transmitters
CLONIX single-channel 128	128
CLONIX twin-channel 128	128
CLONIX twin-channel 2048	2048
CLONIX EXTERNAL twin-channel 128	128
CLONIX EXTERNAL twin-channel 2048	2048

2.1) TECHNICAL SPECIFICATIONS OF MITTO RECEIVER:

Frequency : 433.92MHz
Operating temperature range : -20 / +55°C
Code by means of : Rolling-code algorithm

N° of combinations : 4 billion
Dimensions : see fig.1

Power supply : 12V Alkaline battery 23A

Range : 50/100 metres
Transmitter versions : Twin-channel, 4-channel

3) ANTENNA INSTALLATION

Use an antenna tuned to 433MHz.

For Antenna-Receiver connection, use RG8 coaxial cable.

The presence of metallic masses next to the antenna can interfere with radio reception. In case of insufficient transmitter range, move the antenna to a more suitable position.

4) PROGRAMMING

Transmitter storage can be carried out in manual mode, or by means of the **Universal palmtop programmer** which allows you to create installations in the "collective receivers" mode.

as well as manage the complete installation database using the EEdbase software.

5) MANUAL PROGRAMMING

In the case of standard installations where no advanced functions are required, it is possible to proceed to manual storage of the transmitters, making reference to programming table A and to the example for basic programming in Fig. 2.

- If you wish the transmitter to activate output 1, press pushbutton SW1, otherwise if you wish the transmitter to activate output 2, press pushbutton SW2.
- If you wish to obtain functions other than monostable activation, refer to table A – output activation.
- When LED DL1 starts blinking, press hidden key P1 on the transmitter, LED DL1 will remain continuously lit.
 Note: Hidden key P1 appears differently depending on the transmitter model.
- Press the key of the transmitter to be memorized, LED DL1 will flash quickly to indicate that it has been memorized successfully. Flashing as normal will then be resumed.
- 5) To memorize another transmitter, repeat steps 3) and 4).
- 6) To exit memorizing mode, wait for the LED to go off completely or press the key of a remote control that has just been memorized.

IMPORTANT NOTE: ATTACH THE ADHESIVE KEY LABEL TO THE FIRST MEMORISED TRANSMITTER (MASTER).

In the case of manual programming, the first transmitter assigns the key code to the receiver; this code is necessary in order to carry out subsequent cloning of the radio transmitters.

5.1) Transmitter storage via radio in self-learning mode (DIP1 ON)

This mode is used to copy the keys of a transmitter already stored in the receiver memory, without accessing the receiver.

The first transmitter is to be memorised in manual mode (see paragraph 5).

- a) Press hidden key P1(fig.4) on the transmitter already memorised.
- Press key T on the transmitter already memorised, which is also to be attributed to the new transmitter.
- Within 10 sec., press key P1 on the new transmitter to be memorised.
- d) Press key T to be attributed to the new transmitter.
- To memorise another transmitter, repeat the procedure from step (c) within a maximum time of 10 seconds, otherwise the receiver exits the programming mode.
- To copy another key, repeat from step (a), having waited for the receiver to exit the programming mode (or after disconnecting the receiver from the power supply).

Note: with DIP1 ON/OFF, storage can also be carried out in manual mode.

WARNING: Maximum protection from storage of foreign codes is obtained by having the DIP1 OFF and programming in MANUAL mode or by means of the Universal palmtop programmer (Fig. 3).

6) RADIO-TRANSMITTER CLONING

Rolling-code cloning (DIP2 OFF)/ Fixed-code cloning (DIP2 ON).

Make reference to the Universal palmtop programmer Instructions and the CLONIX Programming Guide.

7) ADVANCED PROGRAMMING: COLLECTIVE RECEIVERS

Make reference to the Universal palmtop programmer Instructions and the CLONIX Programming Guide.

8) MAINTENANCE

The maintenance of the system should only be carried out by qualified personnel regularly. MITTO transmitters are powered by a single 12V lithium battery (23A type).

Any reduction in the transmitter capacity may be due to the batteries getting flat. When the led of the transmitter flashes, it means that the batteries are flat and must be replaced.

9) DISPOSAL

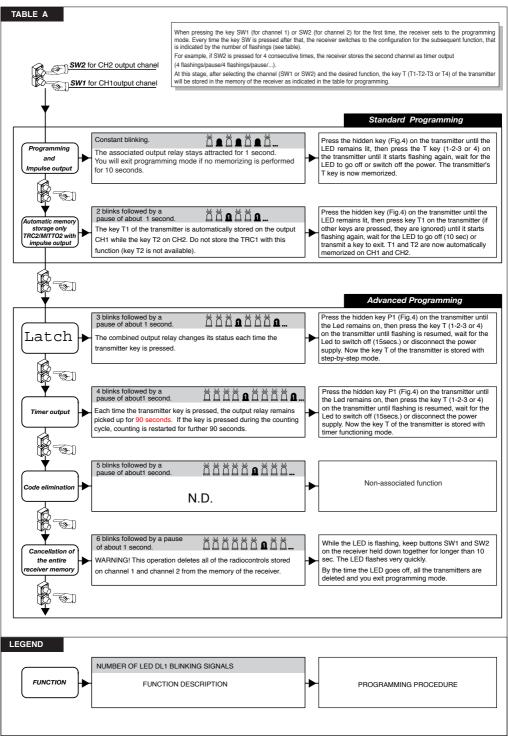
ATTENTION: disposal should only be carried out by qualified personnel.

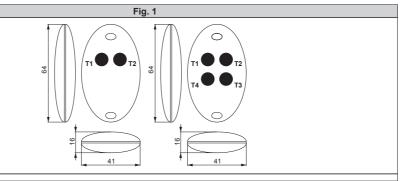
Materials must be disposed of in conformity with the current regulations.

In case of disposal, the system components do not entail any particular risks or danger. In case of recovered materials, these should be sorted out by type (electrical components, copper, aluminium, plastic etc.).

For battery disposal, refer to the current regulations.

The descriptions and illustrations contained in the present manual are not binding. The Company reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving its essential features unchanged, at any time and without undertaking to update the present publication.







BASIC PROGRAMMING OF CLONIX 2
Impulsive output 1 and 2 (to activate, for example, a control unit and its pedestrian opening)





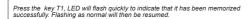


Press the key SW1 once.

The led begins to flash.

Press the hidden key until the led of the receiver stays on.









Wait for the led to switch off.

Press the SW2 once.



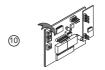
The led begins to flash.



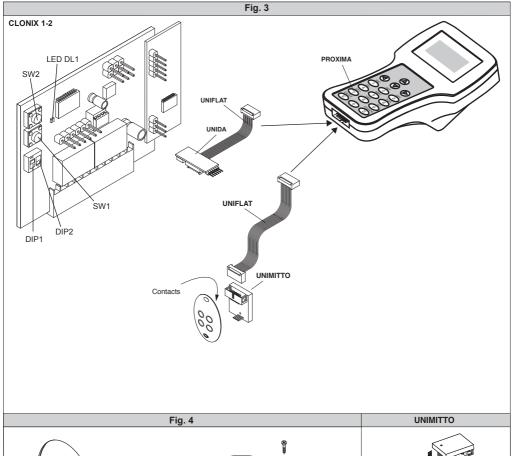
Press the hidden key until the led of the receiver stays on.

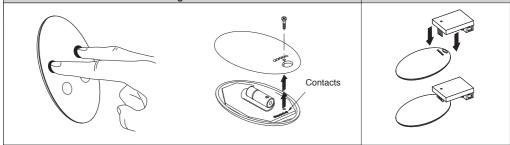


Press the key T2, LED will flash quickly to indicate that it has been memorized successfully. Flashing as normal will then be resumed.



Wait for the led to switch off.





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