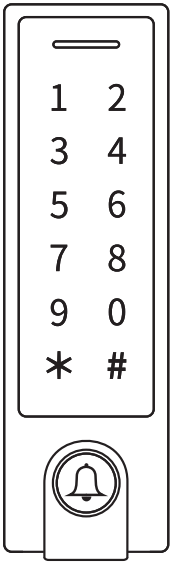
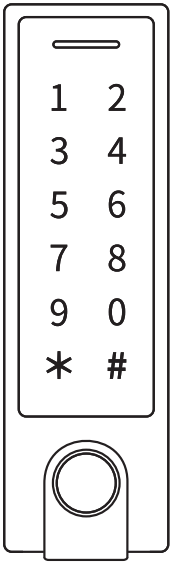
KEY-CODE LOCK

AC-90H4



AC-91H4



Operating manual
and technical specification

CONTENTS

General rules for the safe use of the product

Please read these operating instructions carefully before installing, connecting and using the unit. In the case of any problems with understanding the content of this document, please contact the device seller. Installation and start-up of the device by the user are possible if adequate tools are used. Nevertheless, it is recommended to have the device installed by qualified personnel.
The manufacturer shall not be liable for damage which may occur as a result of incorrect device installation or operation, as well as unauthorised repairs and modifications.

Remember to:

- use the device according to its intended use, keep it away from moisture and fire, do not throw into fire, avoid impacts, do not crush and expose the device to mechanical damage,
- do not clean the device with water, solvents or other chemicals,
- clean the housing only with the power supply cut off, use only a wet cloth for cleaning and wait until the housing is completely dry after cleaning,
- do not carry out unauthorised modifications or repairs,

Note: Devices with a protection degree equal to or higher than IP44 may be installed outdoors (e.g. doorbell buttons, outdoor video intercom panels, cameras, etc.). Information about the protection degree is available in the technical specification of the device.

1. GENERAL CHARACTERISTICS AND INTENDED USE

The key-code lock is intended to act as a physical access control measure.

It can operate independently or as a part of a more comprehensive system. Access control may be implemented remotely, using a smartphone, or physically, using a contactless key fob (using the Mifare 13.56 Mhz standard) or a digital PIN code.

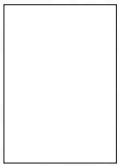
All functions of the device are programmed using mobile TTLock or TTHotel applications available for iOS and Android systems, communicating with the lock using the Bluetooth standard. The applications enable granting rights to other users, generating PIN codes and sending the codes i.e. using text messages.

The device has one relay output which can be used to control one area (e.g. an electric lock at a gate, an automated gate system or arming and disarming an alarm station, etc.). The AC-90H4 model additionally uses a bell button with a NO relay output. The AC-91H4 model is provided with a fingerprint reader, enabling access to one area.

2. THE SET INCLUDES:

Key-code lock - 1 pc.

Torx spanner - 1 pc.



Operating manual - 1 pc.

Bolts - 2 pcs.

Mounting pins - 2 pcs.

Rectifier diode IN4004
(as a relay protection)

Fig. 1.

3. STRUCTURE AND INSTALLATION
3.1. STRUCTURE OF THE KEY-CODE LOCK

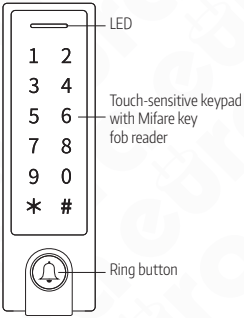


Fig. 2. Structure of the AC-90H4 key-code lock

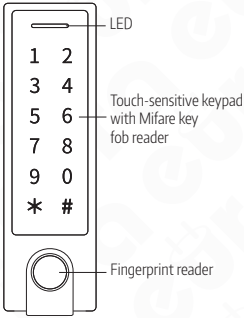


Fig. 3. Structure of the AC-91H4 key-code lock

3.2. INSTALLATION

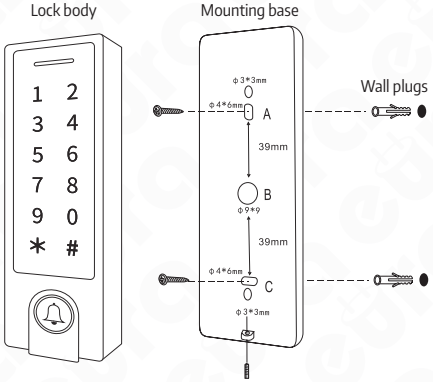
3.2.1. Separate the mounting base from the key code unit, unscrewing the fixing bolt located at the bottom of the device

3.2.2. Place the lock base at the installation location and mark two points for installation holes.

3.2.3. Insert the wall plugs into the previously prepared holes, guide the connecting cables through hole B (Fig. 4) and tighten the key code unit base to the wall

3.2.4. Connect the individual wires to the terminals of the device according to the selected electric diagram

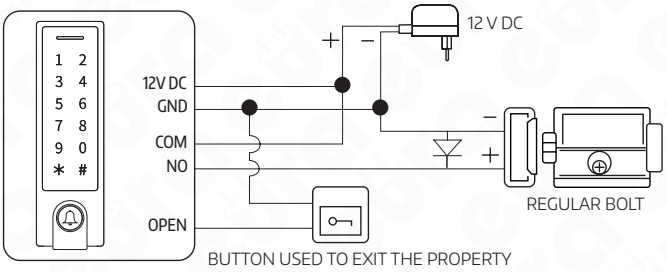
3.2.5 Place the lock body on the installation base and tighten the fixing screw at the bottom of the lock.



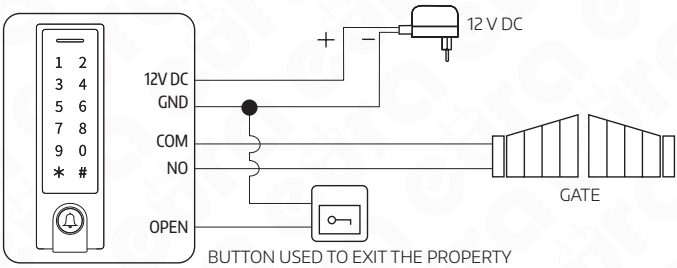
Rys.4.

3.3. WIRING DIAGRAMS

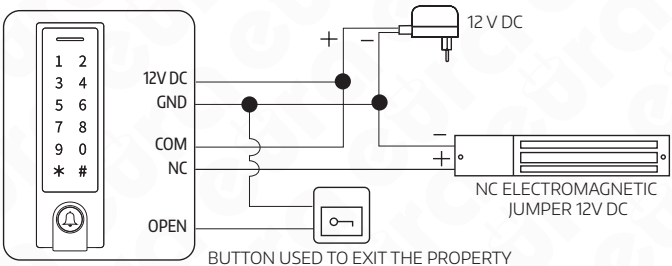
3.3.1 WIRING DIAGRAM WITH A REGULAR ELECTRIC LOCK



3.3.2 WIRING DIAGRAM WITH AN ENTRY GATE AUTOMATON



3.3.3 WIRING DIAGRAM WITH AN ELECTROMAGNETIC JUMPER



4. RING FUNCTION (APPLICABLE ONLY TO THE AC-90H4 MODEL)

The lock is provided with a ring output. The 2-pin plug socket is located in the rear of the lock body, under the installation base. (Ring output: NO 1 A/12 V DC Max)

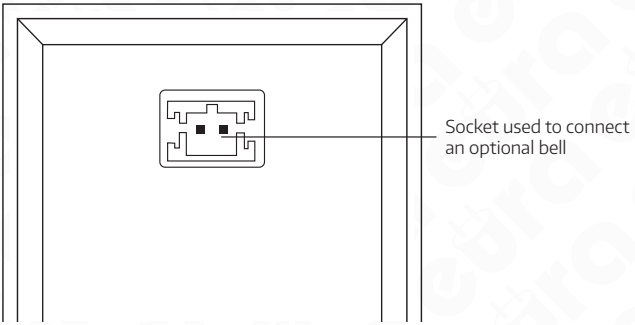


Fig. 5. Structure of the bell socket

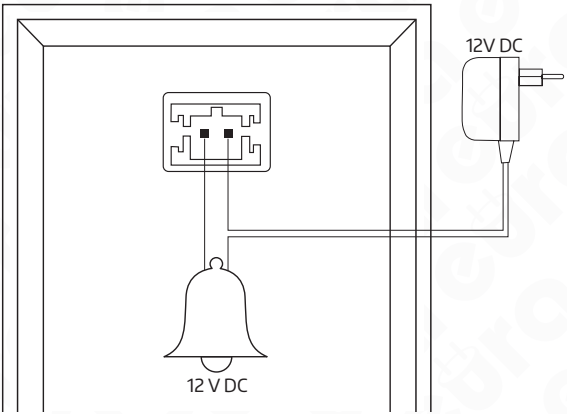


Fig. 6. 12 V DC ring connection diagram.

4.1 Ringing
To use the ring function, press the ringing button available in the front of the device.

Fig. 7.

5. PROGRAMMING AND OPERATION
Download the TTLock or TTHotel application from GooglePlay or AppStore to program the device.

NOTE
In the case of a malfunction, if the device has to be sent to a service station, remove the lock from the mobile application first.

TECHNICAL SPECIFICATION

Supply voltage	12 V DC
Current consumption - standby mode / operation	60 mA / 150 mA
Installation method	Surface-mounted
Housing material	Aluminium alloy, plastic
Bluetooth	Yes
Max. radiated power of the Bluetooth transmitter	<3 mW
Lock activation time	1-900 sec.
Key code unit	Touch
Operating frequency of the contactless reader	13.56 MHz
Max. radiated power of the Mifare transmitter	< 5 mW
Output types	Output 1: NC and NO relay. 1 A/ 24 V DC Max
Operating temperature range	-40°C ~ +60°C
Protection factor	IP66
Dimensions (H x W x D)	148 x 43.5 x 22 mm
Unit weight	330 g

WARRANTY

As the only distributor of the Eura products, Eura-Tech is obliged to ensure efficient warranty and post-warranty service. In the countries where Eura-Tech has neither its own service network, nor DOOR-TO-DOOR service, the quality claims are dealt with by authorised distributors of the Eura products on the basis of the signed distribution agreements. Within the framework of such agreements, Eura-Tech will ensure financing of the possible repairs and delivery of spare parts.

Any used up electrical or electronical device must not be utilized or thrown away with other waste produced by household. In order to avoid harmful effect on natural environment and human health, the device must be utilized in places that are destined to do it. To get more information about place and method of safe utilization you should turn to local authorities or company specialized in recycling.

nr rej. BDO 000015700

ElektroEko

More information about recycling points can be found on www.elektroeko.pl

Eura-Tech Sp. z o.o. hereby declares that the types of radio devices - key-code locks AC-90H4 and AC-91H4 - meet the requirements of the Directive 2014/53/EU.
Find the full text of the EU declaration at: www.eura-tech.eu

CE

11/2022

EURA-TECH Sp. z o.o.

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