

## Roger Access Control System

# ADL-2 Electronic Lock

## Installation Manual

Product hardware version: v2.0

Firmware version: v2.0.4.114

Document version: Rev. E

*This document contains minimum information that is necessary for initial setup and installation of the device. The detailed description of configuration parameters and functionalities is specified in respective Operating Manual available at [www.roger.pl](http://www.roger.pl).*

### DESIGN AND PURPOSE

The ADL-2 electronic lock consists of two metal escutcheons integrated with handles. The external escutcheon has a built-in electronic reader with a keypad, which enables electronic access control. ADL-2 grants access upon entering a PIN, reading a proximity card or use of a mobile app. The ADL-2 lock is designed for mounting in door with 38 to 75mm thickness, with mortise lock installed and with 72mm handle spacing. Prior to installation make sure that door cylinder is long enough. The lock is delivered with two handle pins and two sets of bolts with different length. In case of door with 55mm or greater thickness, longer bolts should be used.

### LOCK INSTALLATION

1. Make holes in door using drilling template.
2. Wires from internal escutcheon should be lead through door's hole and then connected with wires from external escutcheon.
3. Make sure that handle pin hole is positioned in such way that marker (red dot) indicates door top hinge and then install handle pin inside the lock.
4. Install 4 x AAA batteries in the internal escutcheon.
5. Mount escutcheon and verify the operation of internal handle and door cylinder, particularly if handle latch is retracted when metal key is used.

Note: The cylinder not only offers the possibility of mechanically locking the door, but it also enables emergency opening of the door in the event of a failure of the electrical control. Availability of mechanical key should be ensured in case of emergency opening of the door.

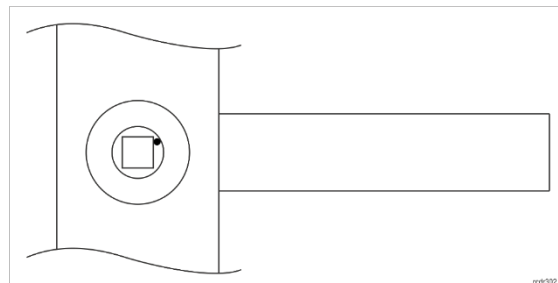


Fig. 1. Proper installation of handle mechanism

### POWER SUPPLY

Lock is supplied from 4 x AAA batteries. Assuming average 10 openings of lock per day, alkaline batteries enable 18 months operation of the lock. Low battery level is signalled by red LED indicator with battery icon (in the bottom part of keypad panel). The indicator will signal low battery level only when in normal mode which can be started with [\*] button.

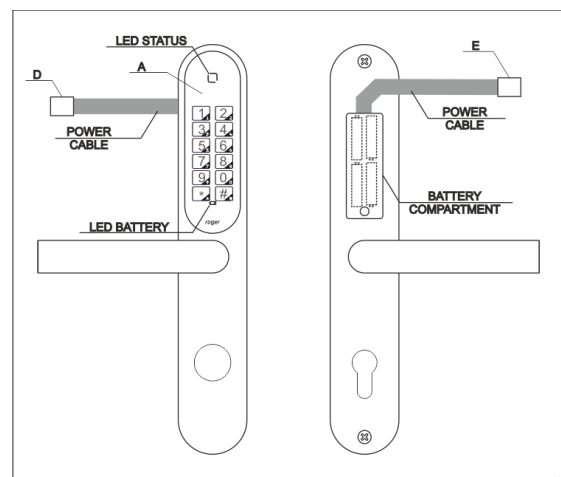
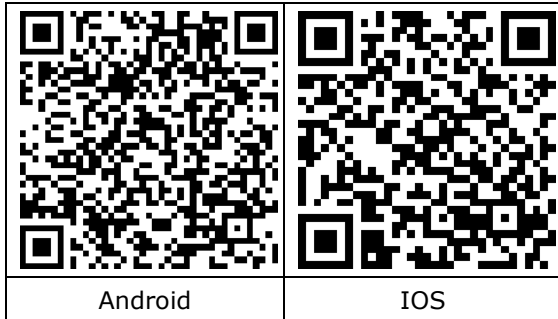





Fig. 2. External and internal escutcheons

## PROGRAMMING

### Connection to mobile app

1. Download and install Roger MDM app from Play Store or Apple Store.






2. Start the app and accept permissions.
3. Press shortly the key \* on ADL-2 keypad.
4. Click Register in the app to start detection of locks.
5. Detected locks will be shown on the list in the app (ADL-2 name and MAC addresses). When in range then the icon  will be shown.
6. Select lock(s) from the list and then click ADD DEVICES TO SYSTEM.
7. Long click (2s) a lock and select Device Configuration from the menu. Default password is empty.
8. In the top right corner select  and then Synchronize clock. Wait for clock synchronization to complete.
9. Enter own description in the field Name.
10. Press they key \* on ADL-2 keypad to wake up the lock, then in the top right corner click the icon  to send configuration to the lock.

### Remote PINs

1. Register/Log in at rps.roger.pl website.
2. In the top menu click ADL-2 locks and then Add lock.
3. Note: When lock is added to particular account at rps.roger.pl then it can be added to another account only if removed from the previous one.
4. Enter all lock's parameters from the Device Configuration section of Roger MDM app.
5. In the top menu click General settings and enter email address where new PINs for the lock will be sent.
6. When PIN codes is selected then the list of already defined PINs is displayed and new PINs can be defined.

### Local PINs

1. Long click (2s) the lock in Roger MDM app and then select Device Configuration.
2. In the top right corner select  and then Local PINs.
3. Click  and then define new PIN (4-8 digits), its name and type. When PIN(s) are defined then back to Device Configuration and in the top left corner select  and upload the configuration to the lock.
4. Local PINs are valid indefinitely and they can be removed only using Roger MDM app.

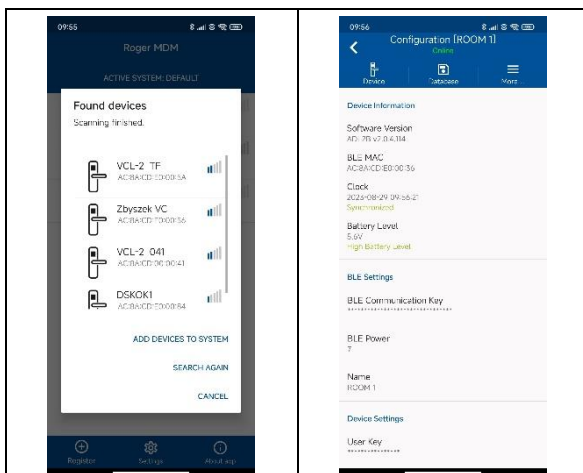


Fig. 3. List of devices in Roger MDM app

Fig. 4. List of detected devices after scanning

## LED INDICATORS

Signalling	Description
LED Battery	If the indicator is on after the lock wakes up, it means that its battery level is low. In such case replace the battery in reasonable time.
LED Status in on and red	LED Status is off when lock is in sleep mode. When [*] key is pressed then lock enters normal working mode and LED Status is red.
LED Status is on and green	Access is granted and it is possible to open door.
LED Status generates two red pulses	Access is denied which can result from incorrect PIN or lock being blocked by means of PIN Block.
LED Status is on and blue	Lock is communicating via BLE.
LED Status is on and orange	RTC failure. Clock must be programmed using Roger MDM app.
LED Status generates orange pulses	General lock failure. Restore factory default settings and program your lock again.

## SPECIFICATION

Parameter	Value
Power supply	4 x AAA (LR03) alkaline batteries
Battery lifetime	18 months with 10 entries per day Note: Battery lifetime is specified for Energizer Industrial LR03 alkaline batteries with 1200mAh capacity and may vary depending on the specific type of battery and the way the lock is used.
Door thickness	38 – 75mm
Handle spacing	72mm
Built-in card reader	ISO/IEC 14443A MIFARE® card reader for MFC-8 (Roger) proximity cards
Environmental class (acc. to EN 50131-1)	Class I, indoor general conditions, temperature: +5°C to +40°C, relative humidity: 10 to 95% (no condensation)
IK code	IK07
IP code	IP20
Dimensions	47x280mm
Weight	~1,1kg
Certificates	CE; RoHS


## ORDERING INFORMATION

Product	Description
ADL-2-L	Electronic escutcheon; access by PIN, proximity card or mobile app; PIN codes generated remotely or programmed in lock's memory; four AAA battery supply; left hand version, normal or reverse bevel

ADL-2-R	Electronic escutcheon; access by PIN, proximity card or mobile app; PIN codes generated remotely or programmed in lock's memory; four AAA battery supply; right hand version, normal or reverse bevel
MFC-8	Proximity card for ADL-2 locks

## PRODUCT HISTORY

Version	Date	Description
1.0	2021/06	The first commercial version of product
2.0	2023/05	The second commercial version of product

	<p>This symbol placed on a product or packaging indicates that the product should not be disposed of with other wastes as this may have a negative impact on the environment and health. The user is obliged to deliver equipment to the designated collection points of electric and electronic waste. For detailed information on recycling, contact your local authorities, waste disposal company or point of purchase. Separate collection and recycling of this type of waste contributes to the protection of the natural resources and is safe to health and the environment. Weight of the equipment is specified in the document.</p>
---	---

### Contact:

**Roger Sp. z o.o. sp. k.**  
**82-400 Gościszewo 59**  
**Tel.: +48 55 272 0132**  
**Fax: +48 55 272 0133**  
**Tech. support: +48 55 267 0126**  
**E-mail: [biuro@roger.pl](mailto:biuro@roger.pl)**  
**Web: [www.roger.pl](http://www.roger.pl)**