

USER/INSTALLER MANUAL





00. CONTENT

INDEX

01. SAFETY INSTRUCTIONS	1B
02. PRODUCT	
PRODUCT DESCRIPTION	4A
CARACTERÍSTICAS TÉCNICAS	4A
BASIC CONTENT	4A
OPERATING SHCEME	4B
DIMENSIONS AND PRODUCT DIAGRAM	 5
FINGERPRINT READER	6
03. INSTALLATION	
INSTALLATION OF WALL-MOUNT	7A
04.CONNECTION SCHEME	
CONNECTION TO MRAC CONTROL BOARD	7B
EXTERNAL POWER CONNECTION	8A
ETHERNET CONNECTION	8B
05. DIP SWITCH	
DIP SWITCH CONFIGURATION	9A
06. COMPONENTS TEST	
DEVICE TEST	10B
07. TROUBLESHOOTING	
INSTRUCTIONS FOR FINAL CONSUMERS / SPECIALIZED INSTALLERS	11

01. SAFETY INSTRUCTIONS

ATTENTION:

This product is certified in accordance with European Community (EC) safety standards.

This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

(Applicable in countries with recycling systems).

This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting from the uncontrolled disposal of waste, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Home users should contact the dealer where they purchased this product or the National Environment Agency for details on where and how they can take these items for environmentally safe recycling. Business users should contact their vendor and check the terms and conditions of the purchase agreement. This product and its electronic accessories should not be mixed with other commercial waste.



This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

01. SAFETY INSTRUCTIONS

GENERAL WARNINGS

- •This manual contains very important safety and usage information. very important. Read all instructions carefully before beginning the installation/usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
- This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
- This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
- •The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.
- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
- •The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.
- Children shouldn't play with the product or opening devices to avoid

the motorized door or gate from being triggered involuntarily.

WARNINGS FOR TECHNICIANS

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The central must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on the power supply cable. Please note that all the cables must enter the central from the bottom.
- If the automatism is to be installed at a height of more than 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16 September 2009.
- Attach the permanent label for the manual release as close as possible

EN

01. SAFETY INSTRUCTIONS

to the release mechanism.

- Disconnect means, such as a switch or circuit breaker on the electrical panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.
- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- •The product is only powered by low voltage satefy with central (only at 24V motors)

WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits, and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety conditions have been met.
- In the event of tripping of circuits breakers of fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

RESPONSABILITY

- · Supplier disclaims any liability if:
 - Product failure or deformation result from improper installation

use or maintenance!

- Safety norms are not followed in the installation, use and maintenance of the product.
- Instructions in this manual are not followed.
- Damaged is caused by unauthorized modifications
- In these cases, the warranty is voided.

SYMBOLS LEGEND:



Important safety notices



Useful information



 Programming information



Potentiometer information



 Connectors information



Buttons information

02. PRODUCT

PRODUCT DESCRIPTION

Reader for internal use with night lighting that is part of the control and management of access of a given location.

TECHNICAL CHARACTERISTICS

• Power Supply	12V DC 1A
• Current	800mA (max)
• Communication	RS485 and TCP/IP
• Operating Mode	Fingerprint and Mifare Card
• Card Reading Format	Mifare (13.56 MHz)
• Identification speed	1,000 <= 1 sec
• ID Setting	TCP/IP
Operating Temperature	-25°C a 55°C
Operating Humidity	20% ~ 80%
• Dimension	75x135x41mm (LxAxP)

BASIC CONTENT

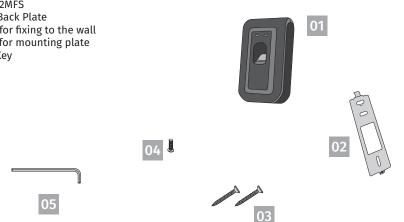
01 • 01 MPXR82MFS

02 • 01 Metal Back Plate

03 • 02 Screw for fixing to the wall

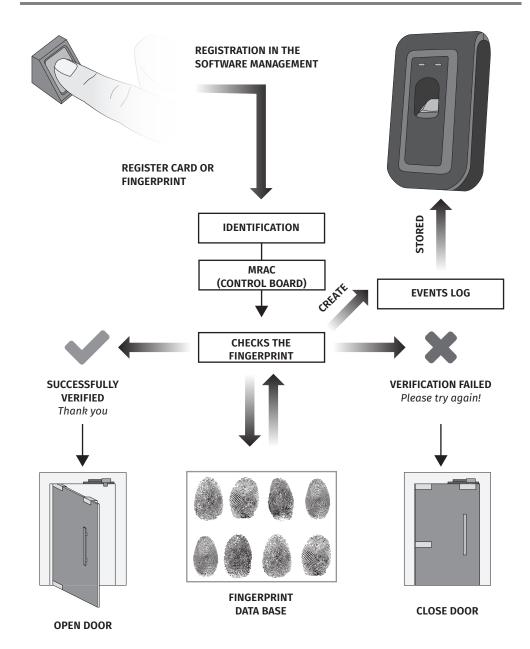
04 • 01 Screw for mounting plate

05 • 01 Heist Key



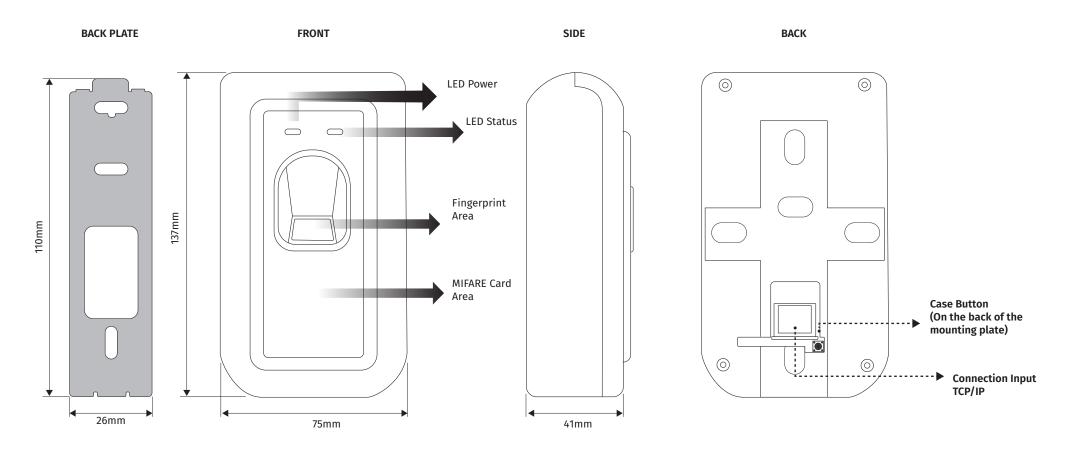
02. PRODUCT

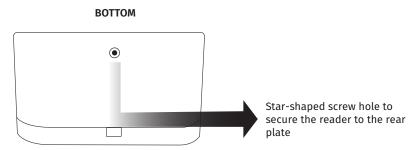
OPERATING SCHEME



02. PRODUCT

DIMENSIONS AND PRODUCT DIAGRAM



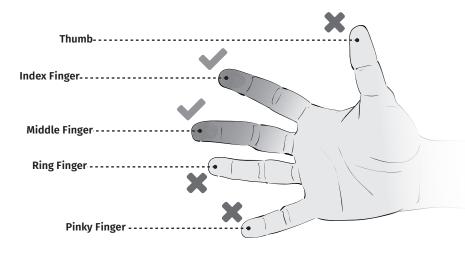


02. PRODUCT

FINGERPRINT READER

1. CHOOSE A FINGER TO ADD

- It is recommended to use your index finger or middle finger.
- Thumb, ring or little finger are relatively difficult to place in the correct position.





Tips for different fingerprint conditions

These fingerprint products are designed to check fingerprints more securely, regardless of finger skin conditions. However, if a fingerprint is not read on the sensor, see the following

- If your finger is stained with sweat/water or covered with dust/impurities, clean it and try
- If your finger is too dry, give some hot air from your mouth at your fingertips.

Tips for inserting fingerprints

In fingerprint recognition, the registration process is very important. When registering a fingerprint, please try to place your finger correctly with the utmost care.

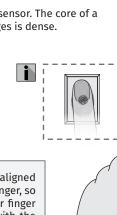
In case of low acceptance rate, the following actions are recommended:

- Delete the registered fingerprint and reregister your finger.
- Register the same fingerprint again.
- If your finger has scars or cuts that make it difficult to register, try another finger. It is recommended to register 2 fingers per user with different hands, so that it is easier to use in the event that the hand is occupied or injured.

2. HOW TO PLACE YOUR FINGER ON THE SENSOR

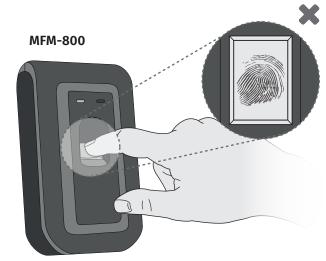
1 • Place your finger in such a way that it completely covers the sensor area with maximum contact.

2 • Place the fingerprint core in the center of the sensor. The core of a fingerprint is a center where the spiral of the ridges is dense.



MFM-800

3 • If a finger is placed as shown on the right, only a small area of the finger is captured. Therefore, it is recommended to place your finger as shown on the left.



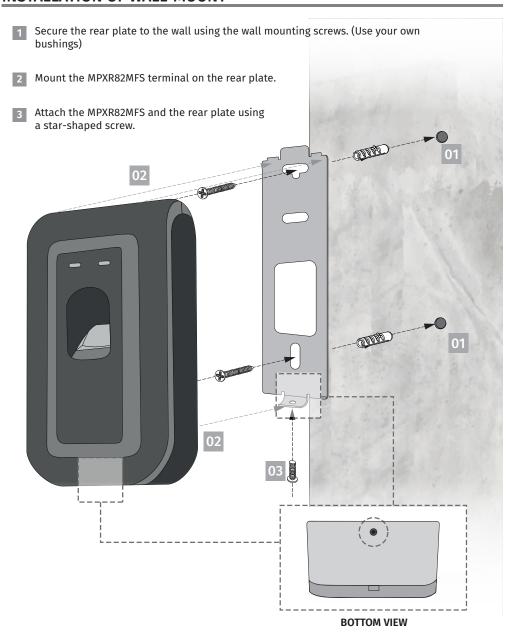


Usually the core of the fingerprint is aligned with the line of union of the nail to the finger, so as a general rule, you should place your finger so that the end of the nail is aligned with the center of the sensor.



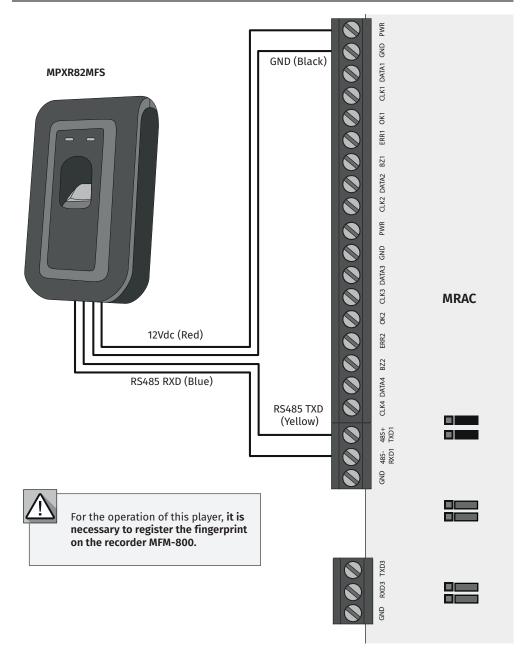
03. INSTALLATION

INSTALLATION OF WALL-MOUNT



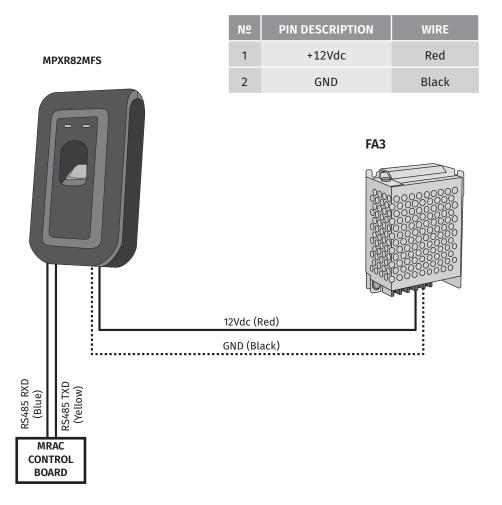
04. CONNECTION SCHEME

CONNECTION TO MRAC CONTROL BOARD



04. CONNECTION SCHEME

EXTERNAL POWER CONNECTION





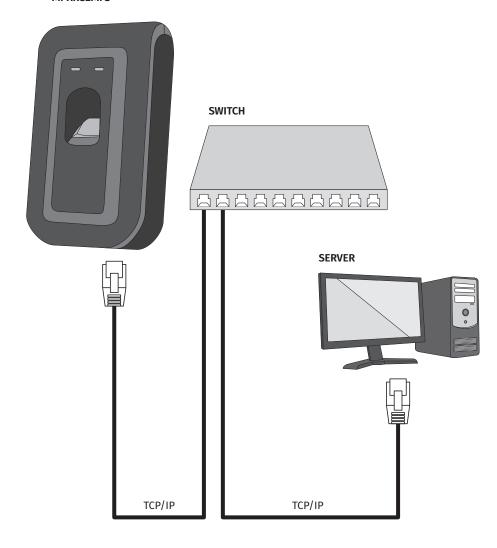
Recommended power supply:

- 12Vdc ±10%, at least 500mA;
- Comply with IEC / EN 60950-1 standard;
- To share power with other devices, use a power supply with higher current ratings.

04. CONNECTION SCHEME

ETHERNET CONNECTION

MPXR82MFS

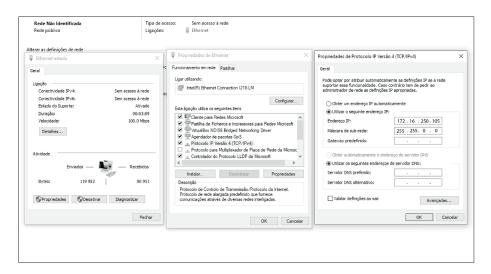




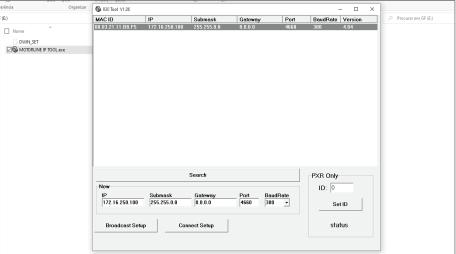
05. DIP SWITCH

DIP SWITCH CONFIGURATION

- 01 Connect the RJ45 cable and power to the reader.
- **02** Check that the IP of the reader is in the same IP range as the computer.



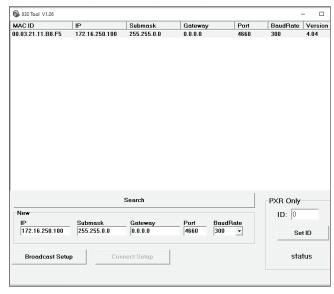
03 • Open MOTORLINE IP TOOL software



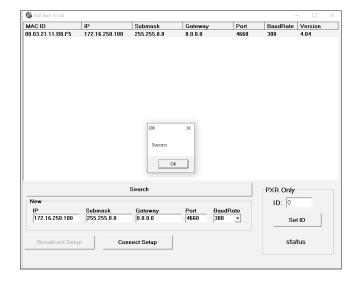


DIP SWITCH CONFIGURATION

04 • Click "Search" to search for the reader.



05 • Connect to the reader by selecting the reader and click "Connect Setup".







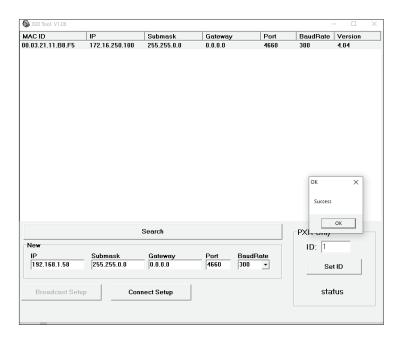


05. DIP SWITCH

DIP SWITCH CONFIGURATION

06 • Write the ID for the reader taking into account your connections to the door.

Numbers	Door	Direction
1	Door 1	Entry
2	Door 1	Exit
3	Door 2	Entry
4	Door 2	Exit



07 • Click "Set ID", the message "OK" will appear if the IP reset is successful.

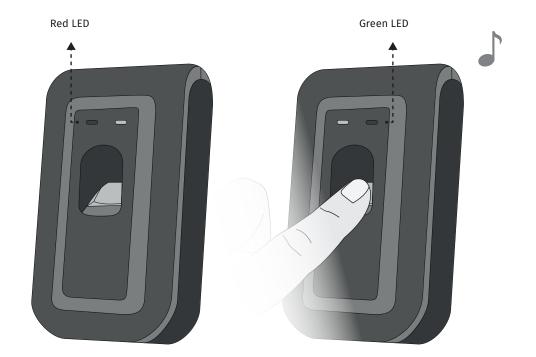


Through the software there is no limit to the configuration of IDs, however the **maximum** number of readers for use on a board, is **8 readers.**

06. COMPONENT TEST

DEVICE TEST

- 1. When the power is on, the reader will flash the red LEDs and hear the beep simultaneously.
- 2. Register the fingerprint to the controller.
- 3. Place your fingerprint on the reader and the green LED will light up after successful verification and identification.





07. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS / SPECIALIZED INSTALLERS

PROBLEM	SOLUTION
The fingerprint cannot be read or takes too long.	 Check that your finger or fingerprint sensor is stained with sweat, water, or dust. Try again after cleaning your finger and fingerprint sensor with dry paper or a slightly damp cloth. If the fingerprint is too dry, scare your finger and try again.
The fingerprint is checked, but the authorization continues to fail.	 Make sure the user is restricted by zone or time zone. Check with your administrator to see if the registered fingerprint was deleted from the device for some reason.
Authorized access, but the door does not open.	 Make sure that the lock duration is set to the appropriate minutes, which opens the lock. Make sure the anti-passback mode is in use. In anti-passback mode, only the person who entered through that door can exit.
The device alarm is ringing.	1. Make sure the device and the rear plate are well connected to each other. If not, an case button is activated, which triggers the alarm and keeps it active.
How to configure the MPXR82MFS used as a fingerprint reader in the Inbio access controller.	1. Please contact our technical support department.