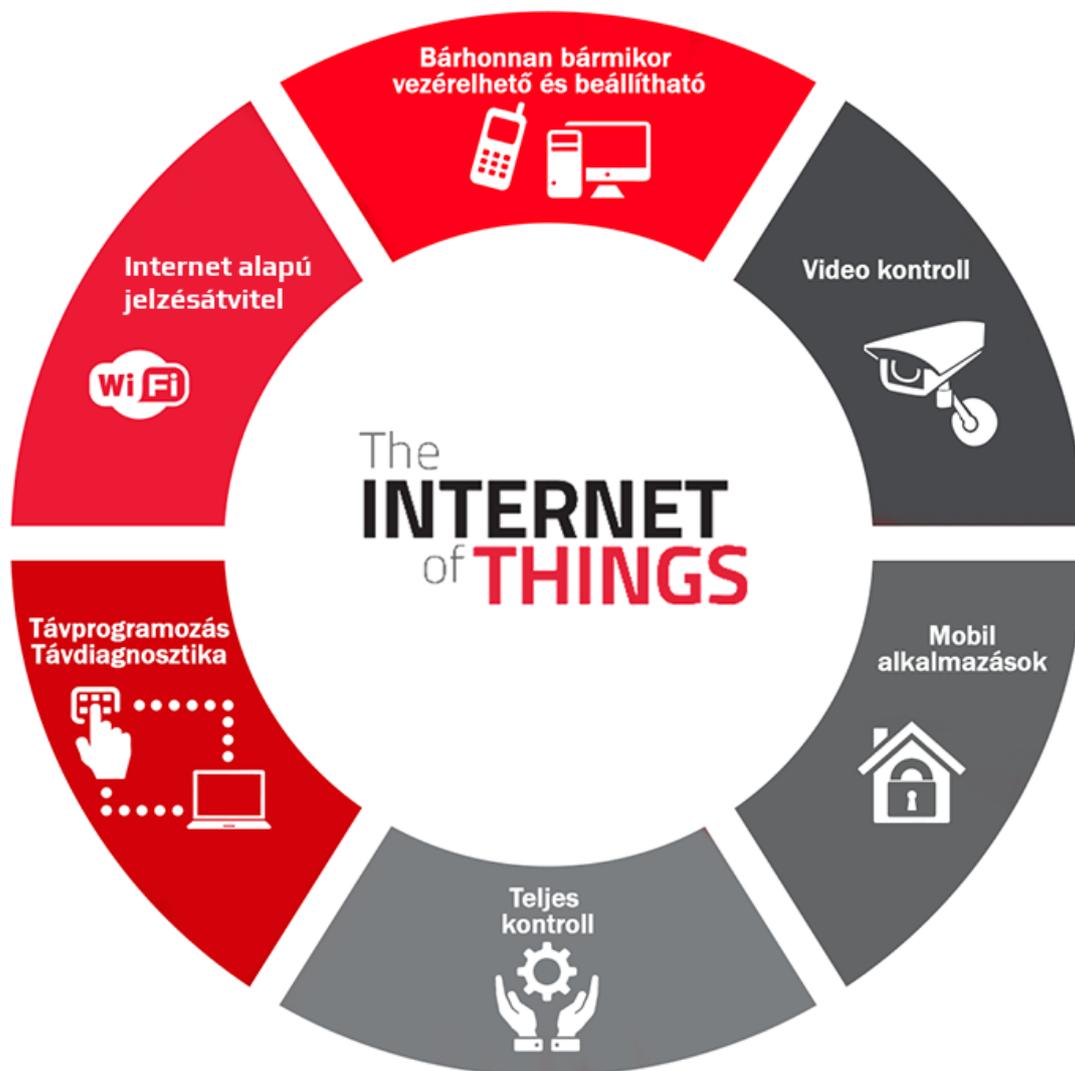


# SECURECOM

## DOOR MASTER 3

### Internet-based WIFI remote control

Users manual v2.0



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# 1 General information

**DM3 (DOOR MASTER 3)** is an advanced gate opener, operating with WIFI connection over the Internet, providing the following functions:

- Control of the gate control unit from unlimited distance using a smartphone application to open and close
- Signalling the status information to the smartphone application With “push notification” messages (e.g. OPEN, CLOSE)
- Monitoring the opening and closing process, from the gate motor control, synchronized with the original remote control of the gate

The **DM3** remote control communicates through the Internet, therefore for its operation it is necessary to have continuous Internet connection active both on the device and the smartphone running the application.

The connection and communication is encrypted with the AES-128 encoding.

## 1.1 Benefits

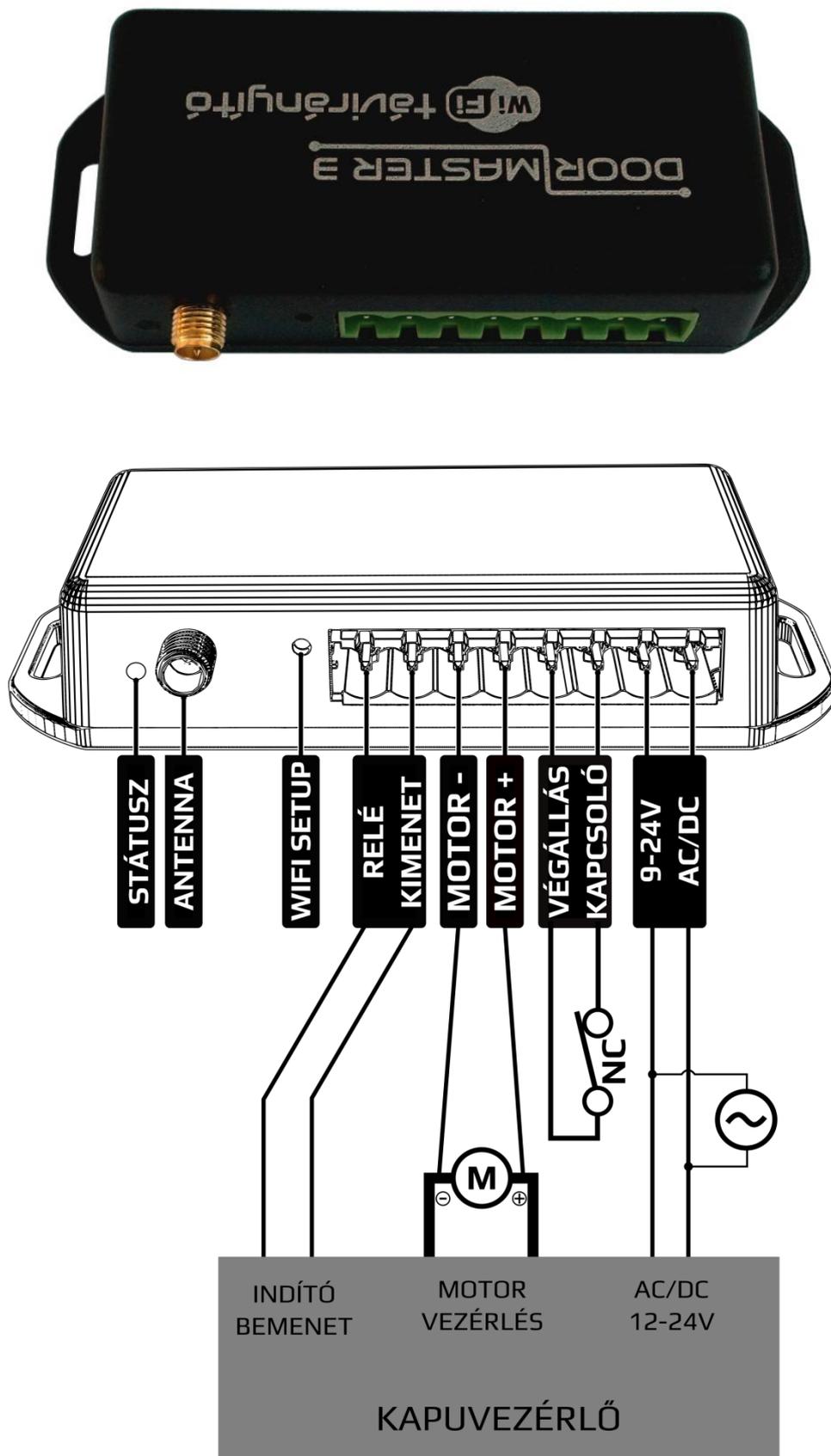
- No SIM card and no monthly fee
- Unlimited distance, number of users and number of signals
- Simple, fast setup (no router settings)
- Control and status monitoring in one

## 1.2 Operation

Controlling the unit with the **PULOWARE** mobile phone application, **DM3** relay will output a closing contact for 1 second, then returns to normally open position. This contact can control the external switching input of any gate controller. Position of the gate can be monitored in 2 ways: monitoring either the wires of the motor, or the position of the limit switch. MOTOR+ and MOTOR- inputs monitor the direction of movement of the gate (opening or closing), and how long it takes (for example, stuck during closing). From this the open or closed position of the gate, can be precisely determined. In case the controller is not suitable for monitoring motor control (e.g. The motor is a 230VAC one), the LIMIT SWITCH inputs of the unit, receive the signal of the external limit switch.

Upon opening or closing the gate controller informs its users, thus making the position of the garage door visible, and the person opening or closing the gate.

## 2 Appearance and connection diagram



## 3 Settings

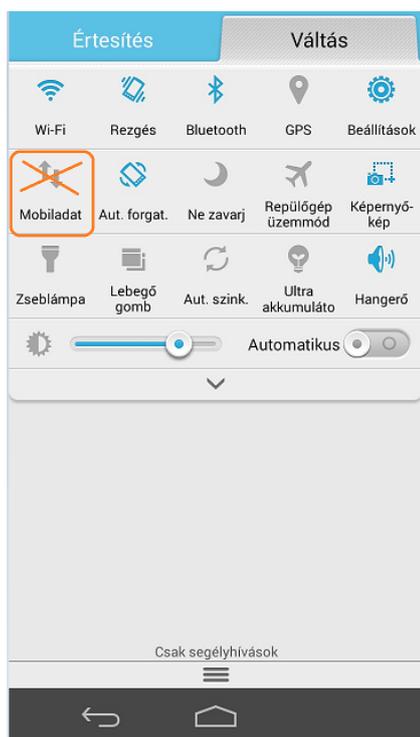
The settings required for operation, must be set on both the **DM3** remote controller and the smartphone side. Since continuous Internet connection is required, first the local WIFI network name and password, have to be entered to the **DM3** unit. Then the PULOWARE mobile application shall be downloaded to the phone of the user, where subsequent settings can be made.

### 3.1 Setting up the WIFI connection of the **DM3** remote control unit

For settings the own webpage of the **DM3** has to be accessed, which is performed by momentarily pressing the **WIFI SETUP** button. Then the alternate blinking of green and red light denotes "HOTSPOT" mode, when an own WIFI network is emitted by the name **SECURECOM DEVICE**, in order to set up Internet connection. You have to connect to this network by a WIFI capable phone or computer, then the webpage containing the settings, can be accessed using a web browser. (It is important to keep the mobile net connection of the phone switched off!)

#### Accessing the webpage of the unit, and settings of the connection

- Press the **WIFI SETUP** button momentarily, so that the status indicator blinks alternately green and red.
- Among WIFI networks, find **SECURECOM DEVICE** and connect to it. **IMPORTANT:** for the time of setup, turn of mobile Internet access on your phone, otherwise the operating system will connect the browser towards mobile Internet service!



- c. After connecting successfully, enter the **DM3** webpage with your browser, which is accessible at **wifisetup.eu**, and provides for setting up the following:

| SECURECOM  |               |
|------------|---------------|
| Type:      | DOOR MASTER 3 |
| Serial:    | WGC170006     |
| Device ID: | 2fe88c2ce5fd5 |

| WIFI 1 SETUP  |              |      |      |
|---------------|--------------|------|------|
| Access point: | FAN THOMAS   | SCAN | EDIT |
| Password:     | NZHVP        |      |      |
| IP:           | 192.168.1.20 | TEST |      |

| WIFI 2 SETUP  |               |      |      |
|---------------|---------------|------|------|
| Access point: | TP-LINK       | SCAN | EDIT |
| Password:     | 1234ABCD      |      |      |
| IP:           | 192.168.0.103 | TEST |      |

SAVE

On the webpage of the **DM3** unit, 2 different WIFI router connections can be set up, by entering the selected networks and their relevant passwords. WIFI networks are backing up each other, meaning if connection to WIFI1 loses Internet connection, the unit will switch to the WIFI2 network, and vice versa.

- Pressing the **SCAN** button will list the available networks, where the appropriate network can be selected and the relevant password be entered.
- The connection can be tested by pressing the **TEST** button. If the password is correct, the device is issued with an IP address. If there is no IP address, either the password is incorrect, or Internet connection is lost in the meantime.
- Save the settings by pressing the **SAVE** button.

Then mobile Internet access can be, moreover should be switched back on, since mobile Internet connection is required for the operation of the remote control!

- d. On the **DM3** unit, press the **WIFI SETUP** button again momentarily, so that it switches back to "NORMAL" mode. If connection to the network router is successful, green light is blinking. Further setting are made in the application.

## 3.2 Setup and operation of the mobile application



The free PULOWARE mobile application can be downloaded to the device of the user from the Google Play or Apple App Store, respectively. After starting the application, the setup wizard asks for entering the operator (user) name, then the **Device identifier number** of the **DM3** unit to be controlled, and finally the relevant password. The device identifier number is the 16 alphanumeric character code on the sticker on the bottom of the device, which is the unique identifier of the unit in the system. There is no password for a new device, this can be set in a separate account on the IoT server interface.

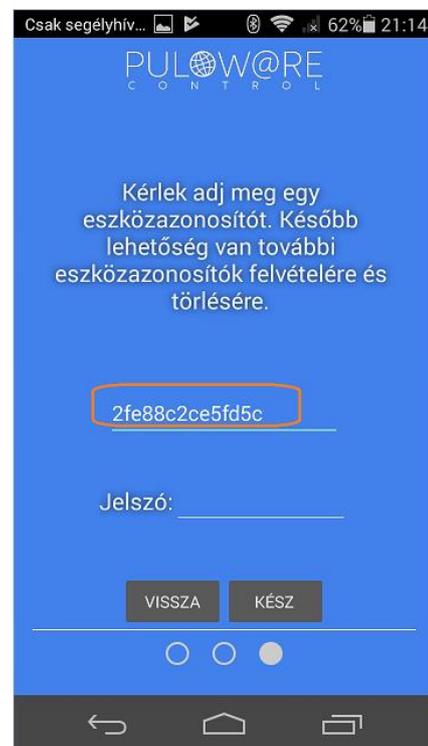
### Starting the application and initial settings

- Download the PULOWARE application from the store supported by your phone.
- Start the application, and enter the relevant data



**Enter user name**

(only required when the app is installed)



**Enter device identifier number**

(when adding a new device)

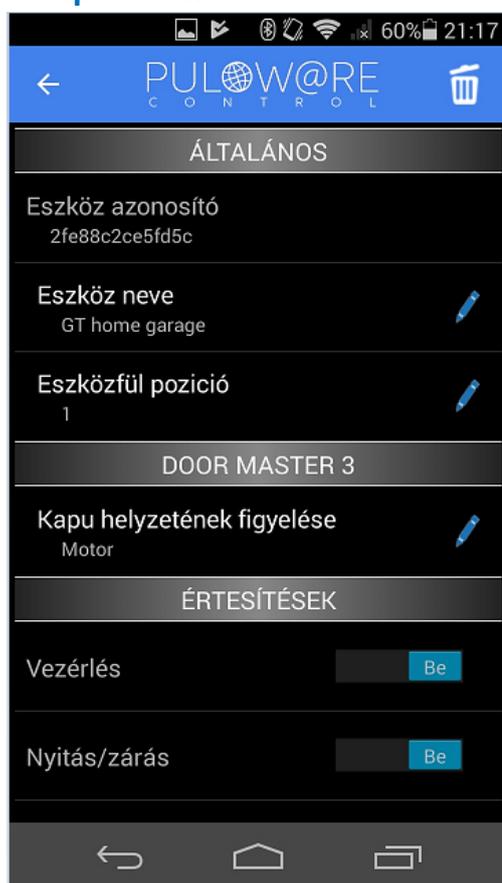
## Details and usage of the application

### Home screen



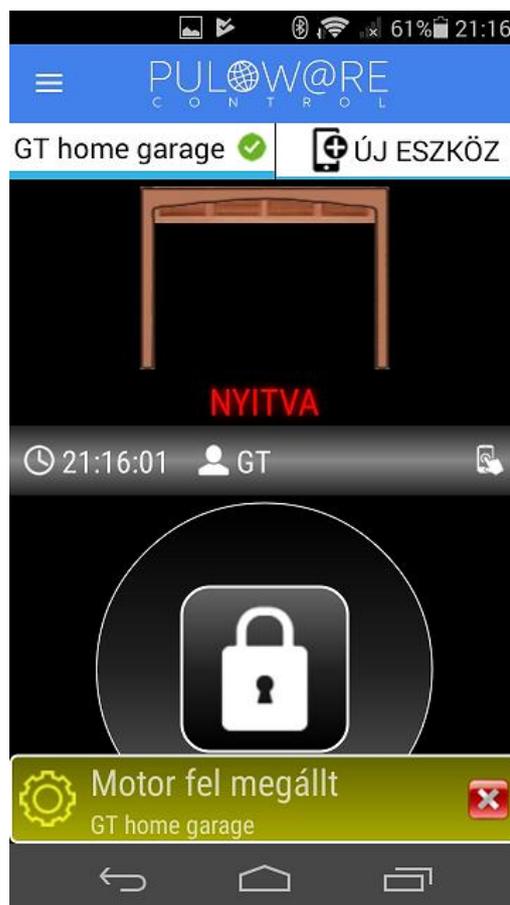
- <- MENU icon and app NAME
- <- Device list, which is scrollable horizontally, thus further units can be selected here
- <- Display of gate position
- <- Opening or Closing time and triggered by (operator name)
- <- Control button must be pressed for at least 2 seconds to start control

### Setup screen

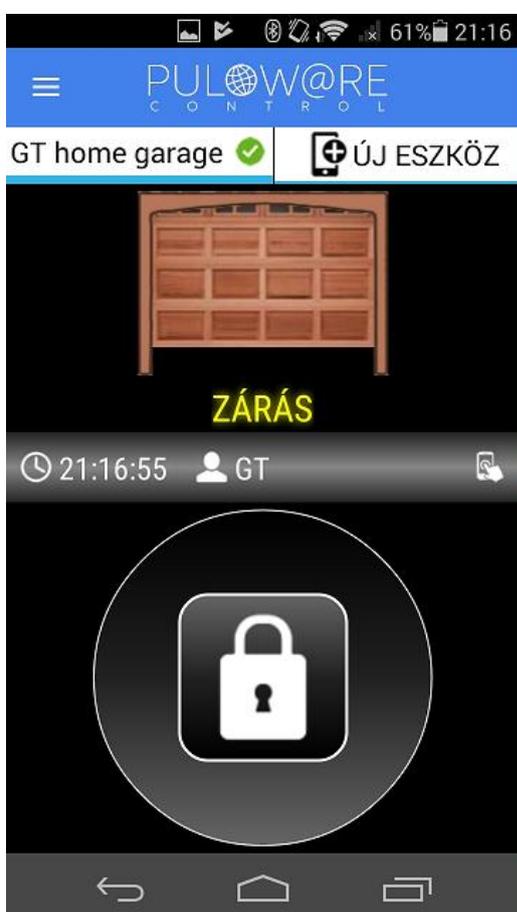


- <- Recycle bin icon for deleting the unit from the app
- <- Name of the gate
- <- Modification of sort order in the device list of the main screen
- <- Monitoring gate position: from the opening motor or from the limit switch
- <- Sending information (push messages) on the given event

## Opening process



## Closing process



## 4 Advanced settings

Communication of the **DM3** is IoT cloud based, thus it is possible to monitor and check the unit on the server interface. Access is provided on the [www.puloware.com](http://www.puloware.com) page, but this requires registration. After login the device identifier of the communicator has to be added to the list, so that the given **DM3** unit appears on the interface! After login, the following interface can be seen:

The screenshot displays the SECURECOM web interface. At the top, it shows the user's email (dm3user@gmail.com), a login button (KIJELENTKEZÉS), and the operator's name (OPERÁTOR: ?). The interface is divided into several sections:

- ESZKÖZÖK (Devices):** A list of devices with their names and MAC addresses. The selected device is "Garázskapu" with MAC address [2fe88c2ce5fd5c].
- SECURECOM Header:** Displays the device type (Típus: DOOR MASTER 3), program version (v1.10.92), name (Név: Garázskapu), and installation mode (Élesítési mód: NO/NC állapot váltás).
- ÁLLAPOTJELZŐ ABLAK (Status Window):** Shows system logs with details like PULOWARE ID, PRODUCT, SERIAL, and Local IP.
- MODUL ÁLLAPOTA (Module Status):** A table showing the status of various components: WIFI network (TP-LINK), WIFI signal (indicated by a green bar), Motor fel (INACTIVE), Motor le (INACTIVE), Végálláskapcsoló (-), and OUT (INACTIVE).
- MODUL BEÁLLÍTÁSOK (Module Settings):** Shows the motor type (Bemenet típusa: Motor).
- ESEMÉNYLISTA (Event List):** A table listing events with columns for Date/Time, Event, CID, MS1, and MS2.

| Dátum/idő           | Esemény         | CID | MS1 | MS2 |
|---------------------|-----------------|-----|-----|-----|
| 2018.01.22 06:32:35 | Gate closed     |     |     |     |
| 2018.01.22 06:32:35 | IN2 [restored]  |     |     |     |
| 2018.01.22 06:32:17 | IN2             |     |     |     |
| 2018.01.22 06:32:16 | OUT1 [restored] |     |     |     |
| 2018.01.22 06:32:16 | OUT1            |     |     |     |
| 2018.01.22 06:30:32 | IN1 [restored]  |     |     |     |
| 2018.01.22 06:30:12 | Gate opened     |     |     |     |

**DEVICES:** The devices added to the account, are listed on the left side.

**MODULE STATUS:** Can be monitored during the operation of the unit, thus movement and direction of the motor, and position of the limit switch, are visible. Settings, and their modifications are synchronised with the mobile application.

Apart from the **DM3** remote control, the server and the application provide data services for other SECURECOM products, thus other types of units (e.g. alarm signaling) can be added to the application. Further information is available on the [www.securecom.eu](http://www.securecom.eu) site.

**Reset to factory settings:** If necessary, all settings and existing connections, can be deleted from the unit, with the user phone applications.

This operation can only be performed on the device, if it is in standstill and has stable Internet connection, that is, green light is blinking.

For reset, press the **WIFI SETUP** button continuously for 30 seconds, then the status LED blinks red/green to indicate deletion, then continuous red indicates all contacts and settings were deleted.

## 5 Status indication

The **STATUS** indicator next to the antenna transmits the following information about the actual operation of the **DM3** unit.

|                              |  |
|------------------------------|--|
| <b>Continuous red</b>        | Adjustment wrong or missing                  |
| <b>Blinking red</b>          | Connecting to WIFI network                   |
| <b>Blinking green</b>        | NORMAL operation, stable Internet connection |
| <b>Alternating green/red</b> | HOTSPOT mode, setup in progress              |

## 6 Technical data

Max. current consumption                      100mA

Operating frequency                              2.4 GHz

WIFI protocol                                        IEEE 802.11 b/g/n

Receiver sensitivity                               -98 dBm

Transmitter power                                +20 dBm

Antenna connection                              RP-SMA

Relay load capacity                                max. 2A @ max. 60V

MOTOR voltage                                    max. 24VDC

Operating temperature                           -40...+85°C

Dimensions                                         80x40x20mm

Ingress protection                                IP40 (safety box required outside)

## 7 Content of the package

- **DM3** WIFI remote control
- Terminal stripe for wiring
- WIFI antenna 2.4GHz 3dB
- Limit switch (reed-relay + magnet + screws) with 3m of wire
- Users manual

## 8 Comparison table

In the table the important characteristics concerning usage, are compared:

| Characteristics   | WIFI gate opener | Radio gate opener | GSM gate opener              | Bluetooth gate opener |
|---|------------------|-------------------|------------------------------|-----------------------|
| Control distance  | unlimited        | max. 100m         | unlimited                    | max. 50m              |
| Feedback on the position of the gate (how much it is open?) | yes*             | no                | no                           | no                    |
| Messages about events (open/close, when? who?)              | yes              | no                | usually not (extra cost)     | usually not           |
| Number of users   | unlimited        | 1-10              | 10-100                       | unlimited             |
| Cost per operator   | 0 HUF            | 5-15 thd HUF / pc | 0 HUF                        | 0 HUF                 |
| Other costs   | 0 HUF            | 0 HUF             | SIM uploading 2-3 thd HUF/yr | 0 HUF                 |
| Annual actions  | none             | none              | SIM registration             | none                  |

\* Feedback on the position of the gate works if monitoring of the gate opening motor wires are connected to the **DM3** unit.