KEYPOINT

WIRELESS CODE KEYPAD
assembly and operating manual

v.1.1

1. General information

The KEYPOINT wireless code keypad is a battery-powered radio transmitter. It has 255 control channels operating at the frequency of 868MHz and 4 control channels operating at the frequency of 433MHz. Sends a radio signal after entering the correct code. The keyboard is equipped with a light sensor and a proximity sensor. Designed for surface mounting, both outdoor and indoor.

2. Technical data

- frequency: 433MHz and 868MHz
- number of control channels: 4 channels 433MHz and 255 channels 868MHz
- maximum radio range: 150 m
- power supply: 2x 3.6V R6 battery
- battery performance: 3 years at 10 cycles per day
- keyboard: made of PC, 12 backlit keys
- housing: plastic, ASA
- degree of protection: IP54
- installation: surface mounted
- working temperature: -10 °C / + 55 °C
- dimensions: 110 x 75 x 40 mm
- weight: 140 g

3. Assembly

The keyboard is delivered with batteries packed individually, not placed in the device. The batteries should be placed in the battery basket on the electronics board inside the housing (see section 11.2 Battery replacement).
Before installing the device, check the radio range of the keypad. To do this, add the keyboard to the receiver, in accordance with the manual. The receiver and the keyboard must be in the target place, if the range is sufficient for the stable operation of the devices, you can install the keyboard.
The keyboard should not be installed in metal housings or near metal objects. Remember about reducing the range when the battery is used up. The keyboard can be mounted indoor and outdoor.
The keyboard has a handle that is easy to install, into which the housing is inserted. Fasten the holder with the included mounting pins. After inserting the keyboard into the holder, screw in the provided torx screw from the bottom and put on the housing cover. The assembly method is shown in Figure 1.

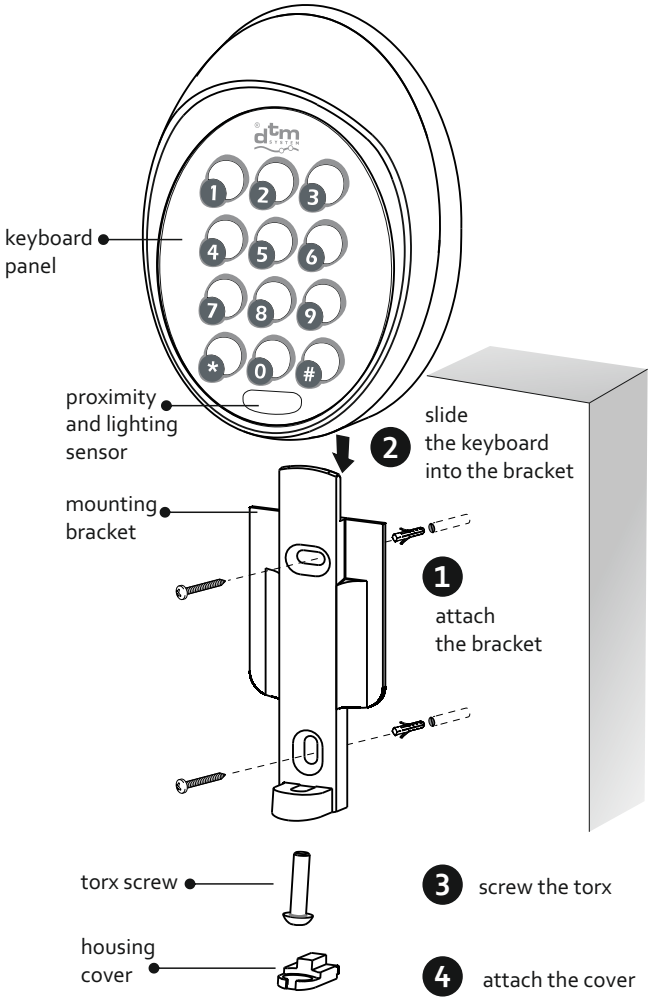


Fig.1. Construction and assembly of the keyboard.

4. Using the keyboard

The control consists in entering the individual channel code on the keyboard and confirming it with the button marked # or entering the universal code, and then pressing the button marked * and entering the channel number and confirming it with the # button. This causes a radio signal to be emitted.

- channel control using an individual channel code:

  n_channel_code #

  Example:
  using 3rd channel of DTM868MHz system of individual code 321
  321#

- channel control using a universal code:

  universal_code*n_channel_number #

  Example:
  using 4th channel of DTM868MHz system by universal code 432
  *432*4#*

5.Keyboard programming

Keyboard programming

The keyboard is programmed by entering codes on the device panel. All commands are preceded by the administrator code.

The administrator code consists of 4 digits.

The factory default admin code is **1111.**

5.1. Changing the administrator code

To change the administrator code, enter on the device panel:

***old_code#*new_code#**

Example:
Change the admin code from the default 1111 to 1234
**1111#*1234#*

5.2. Setting an individual code for a channel

The individual code is a code assigned for one of 259 control channels. The keyboard has 255 control channels of the DTM868MHz system, numbered from 1 to 255, and 4 control channels of the DTM433MHz system, numbered from 401 to 404.

The individual code can consist of 1 to 4 digits.

Adding or changing an individual code for a channel:

***administrator_code#channel_number#n_channel_code#**

Example:
Setting code 4321 for 3rd channel of DTM868MHz system
**1234#3#4321#*
Setting code 5678 for 2nd channel of DTM433MHz system
**1234#402#5678#*

5.3. Deleting an individual channel code

Channel code deleting:

administrator_code#channel_number#

Example:
Deleting an indivdual code of 3rd channel of DTM868MHz system
1234#3#

5.4. Setting universal code

Universal code allows the use of 259 control channels without having knowledge of the codes of individual channels.
The universal code consists of 1 to 4 digits.

Setting the universal code:

***administrator_code#0#universal_code#**

Example:
Setting universal code value 9876
**1234#0#9876#*

5.5. Deleting universal code

Deleting universal code from the keyboard:

administrator_code#0#

6. Sound signaling

Pressing any key on the keyboard is signaled by a short beep.

Each successful operation, both programming and control, is signaled by a quick four-beep.

An unsuccessful operation is signaled by a long double beep.

The time for entering the next character on the keyboard is 5 seconds. After this time, the input data error is signaled by a double long beep.

In the case of the active protection against repeated pressing, during the minute lock, each press of the button is signaled by a single long beep.

7. The function of protection against repeatedly entering incorrect code

In order to protect the device against attempts of unauthorized use, it is possible to enable protection against repeatedly entering an incorrect code. If the function is switched on, then after entering an incorrect code three times, the keypad lock is activated for one minute. Each key press on the keyboard while the lock is active is signaled with a long beep after each key press.

Identifying codes and administrative functions are unavailable during this period.

Enabling the protection function:

***administrator_code#902#1**

Disabling the protection function:

***administrator_code#902#0**

8. Light and proximity sensor

The keyboard is equipped with a proximity sensor and a light sensor. Depending on the needs of the functions of measurement of light intensity and closeness can be turned on or off.

Enabling light and proximity measurement function:

***administrator_code#900#1#**

Disabling light and proximity measurement function

***administrator_code#900#0#**

With the measurement function off, the keyboard will not light up when you bring your hand closer, but only after pressing any button.

The light intensity is measured by the device every 16 seconds. Between measurements, the device does not respond to changes in lighting. This should be borne in mind when the device is installed in rooms with artificial lighting.

9. Calibration of the proximity sensor
You can calibrate the proximity sensor at any time.

Starting the calibration:
***administrator_code#999#1#**

Calibration takes place after 3 seconds. During this time, keep your hand away from the keyboard.
Completion of calibration is signaled by a single beep.
Regardless of manual calibration, the device carries out auto-calibration of the proximity sensor every 16 seconds. It consists in measuring and saving its value. The average value of the last three measurements is used to establish the approach detection threshold. Auto-calibration is performed only when the light and proximity detection function is turned on, the light level is low (it is dark) and the device is in standby mode.

10. Factory reset
To restore factory settings, press on the keyboard panel:

***administrator_code#899#1#**

Keyboard factory settings:

- reset to default admin code 1111
- switching on the proximity sensor and lighting
- switching on the protection function against repeatedly entering an incorrect code
- delete individual channel codes
- removal of universal code

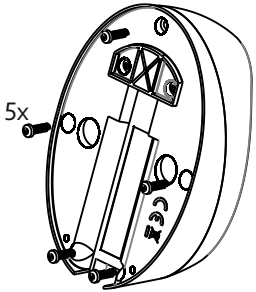
11. Battery

11.1. Battery status

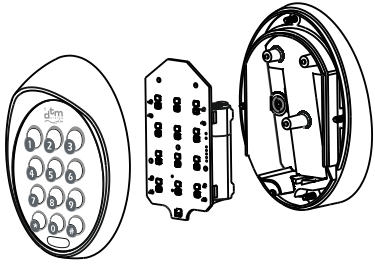
The keyboard is powered by two 3.6V R6 batteries. After each signal transmission, the keyboard measures the battery voltage. Three short beeps are signaled when the battery is low.
Replace the batteries when they are low.

11.2. Battery replacement

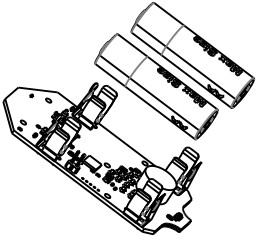
To replace the battery, unscrew the 5 screws shown in figure 2 on the back of the housing. Take out the electronics board and replace the batteries, placing new batteries in baskets on the electronics board, paying attention to their polarity.



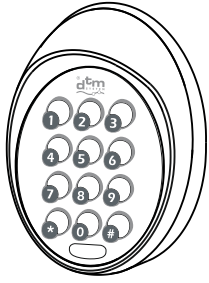
UNSCREW THE 5 SCREWS
ON THE BACK OF THE HOUSING



DISASSEMBLE THE HOUSING



REPLACE THE BATTERIES



AFTER REPLACING THE BATTERY, PLACE
THE ELECTRONICS IN THE HOUSING
AND SCREW THE HOUSING TOGETHER

Fig.2. Battery replacement.

DISPOSAL

Electrical and electronic devices must not be disposed of with household waste. Correct disposal of the device enables the Earth's natural resources to be preserved for longer and prevents environmental degradation.

WARRANTY

DTM System provides the equipment in working order and ready for use. The manufacturer provides a warranty for a period of 24 months from the date of purchase by the end customer. The warranty period is determined on the basis of the manufacturer's warranty seals placed on each product. The manufacturer undertakes to repair the device free of charge if during the warranty period there are defects due to the manufacturer's fault. The defective device must be delivered to the place of purchase at your own expense, including copies of the proof of purchase and a brief, unambiguous description of the damage. The cost of disassembly and assembly of the device is borne by the user. The warranty does not cover batteries in remote controls, any damage resulting from improper use, unauthorized adjustments, alterations and repairs as well as damage caused by lightning, overvoltage or short circuit of the power supply network. The detailed terms and conditions of granting a guarantee are regulated by relevant legal acts.

CE DTM System hereby declares that the device complies with Directive 2014/53 / EU. The full text of the EU declaration of conformity is available at www.dtm.pl

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