

Radio timer Radio 8152-50

Manual



1. Description

1.1 Application

The radio timer Radio 8152-50 is a wall transmitter designed to operate motorized roller shutters, roller shades, blinds, awnings as well as light and other electric devices connected to any receivers of the Radio product line. These objects can be operated either manually by means of buttons of the front panel and/or automatically according to the set timing intervals.

1.2 Features

- “24-hour mode” – opening roller shutters at a certain programmed time in the morning and closing them at a certain time in the evening, which are the same for all days within a week.
- “Automatic mode” – operating roller shutters automatically or manually with the buttons on the front panel.
- “Manual mode” – operating roller shutter only manually, the automatic mode is blocked.
- “People presence imitation” – operating roller shutters automatically at random time periods within 30 min from the set time. The mode is used, for example, when the house owners are out on vacation.

Installation

It is possible to install the radio timer into frames by other producers due to its 50×50 mm dimensions (standard DIN49075, which specifies design compatibility of electric devices by various producers).

Easy installation:

- the device can be easily attached to any smooth surface thanks to a special mounting frame supplied in the kit;
- no electric wiring: commands are transmitted to receivers by radio.

Programming

Simple programming

Setting current time

Setting time for opening/closing roller shutters, switching power on/off

Controlling

Local control over one radio receiver

Central control over several radio receivers

1.3 Technical characteristics

Working range, MHz	434.42 ± 0.37
Max signal power, mW	<10
Dimensions (the garnish frame Regina used), mm	80x80x21
Number of channels	1
Working ambient temperature, °C	from 0 to +45
Working conditions	dry heated premises
Body protection class (by GOST 14254)	IP40
Battery type	CR2450, 3V-Li
Battery lifetime, year	1

1.4 Working modes

The “**Automatic mode**” is set by default. At the set time the Radio 8152-50 automatically transmits commands to the receiver(s), in which it has been programmed, to close/open roller shutters. It is also possible to operate the roller shutters any time with the buttons on the front panel of the device.

The “**Manual mode**” can be activated if necessary. In this mode the operation of roller shutters or other objects is possible only with the buttons on the front panel of the Radio 8152-50.

The “**Presence imitation**” function can be activated if necessary. It makes roller shutters or light to open/close or switch on/off at random time periods within 30 min from the set time. E.g., the opening time has been set at 7:00, so on Monday the roller shutters will be lifted up at 6:50, on Tuesday at 7:05, etc. The random choice algorithm is used to set the random time periods as if the roller shutters were operated by humans. Manual operating with the buttons on the front panel of the Radio 8152-50 is possible in this mode as well.

1.5 Functions of the Radio 8152-50 buttons and LCD indications

1.5.1 Functions of buttons

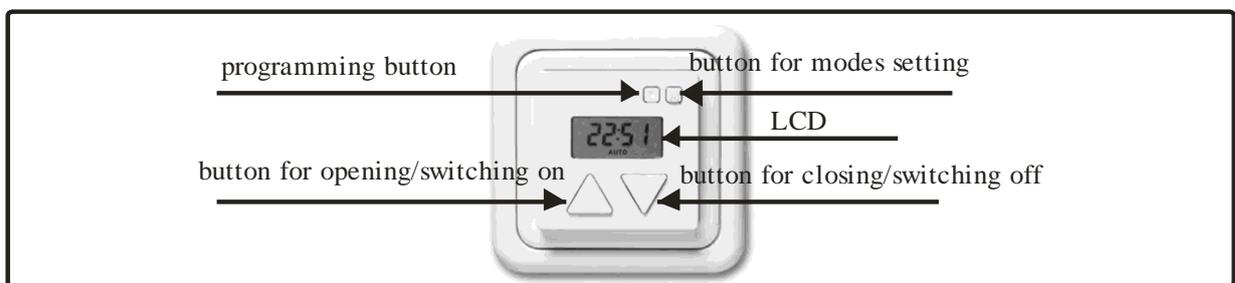


Fig.1 The control buttons and LCD placement

The UP button transmits the command “Up/Switch on”.

The DOWN button transmits the command “Down/Switch off”.

Pressing the UP (or DOWN) button, when the roller shutter is going down (or up), transmits the command “Stop”.

The programming button activates the programming mode.

The setting modes button (M):

- a *short pressing* of the button allows to switch in-between the modes: “Manual mode”, “Automatic mode”, “Presence mode”;
- *pressing and holding the button for min. 4 sec.* allows to enter the current time programming mode (hereinafter referred to as the PM mode);
- a *short pressing of the button in the PM mode* allows to go on to setting the time of opening/switching on;
- *another short pressing of the button in the PM mode* allows to go on to setting the time of closing/switching off.

1.5.2 Indication



Fig.2 Indicating elements/signs

The display shows:

- in the operation mode – current time, preset mode, battery charge indication;
- in the PM mode – set current time;
- in the timer setting mode – first, the roller shutters opening time;
- in the timer setting mode – then, the roller shutters closing time.

Table1. The display indications in the pilot mode

“Manual mode”	“Automatic mode”	“Presence imitation mode”	Battery charge indication
man	auto	⊕±	⊕±±±

1.6 Compatible radio receivers

Table2. Compatible radio receivers

To operate roller shutters	To operate gates, garage doors, awnings, other electric loads
The single-channel radio receiver Radio 8113 IP65	The single-channel radio receiver Radio 8113 IP65
The single-channel radio receiver Radio 8113 UPMi	
The single-channel radio receiver Radio 8115 IP55	

2. Radio timer installation

2.1 Choosing the installation place

Choose the installation place inside the building.

Caution! While choosing the installation place, please, follow the recommendations below to maximize the working range of the Radio 8152-50:

- Avoid installation on shielding and reflecting surfaces, e.g. roller shutters, metal screens, metal roofs, metal laths, natural-stone-faced surfaces.
- Don't place the device close to radio sources, e.g. radio sensors, radio stations, other remote controls, etc.

2.2 Mounting the device

- Fix the mounting frame on the surface with screws.
- Place the decoration frame and the adapter.
- Holding the frame and the adapter, snap in the device (see fig.3).

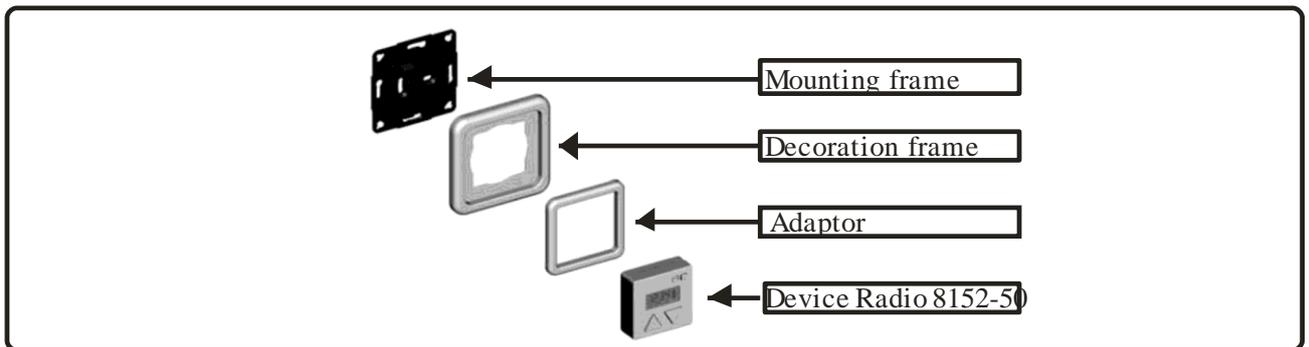


Fig.3 Fixing the radio timer

3. Programming

3.1 Programming the Radio 8152-50 codes into the memory of radio receivers

3.1.1 Disposition of indicating and programming elements on the radio receivers

The single-channel radio receiver Radio 8113 UPMi	The single-channel radio receiver Radio 8113 IP65

3.1.2 How to program the timer into receivers memory

Steps	LED of the receiver confirming the performed action
Step 1. Enter the programming mode of the receiver	

Press and hold the programming button of the receiver min.4 sec until the LED of the receiver flashes yellow and then turns red. The radio receiver programming mode has been activated.	“LED” of the Radio 8113 UPMi “LED 1” of the Radio 8113 IP65
Step 2. Program the radio timer code into the radio receiver	
Shortly press the programming button of the Radio 8152-50, the sign “ProG” will appear on its display. Make sure that the LED of the radio receiver flashed green short-long-short. Note! If the LED of the receiver flashed once, it means that the Radio 8152-50 you are trying to program has been previously programmed. If the LED regularly flashes yellow, the memory of the radio receiver is full.	“LED” of the Radio 8113 UPMi “LED 1” of the Radio 8113 IP65
Step 3. Leave the programming mode of the receiver	
Press the programming button on the receiver. The receiver will beep and flash yellow twice (first long, then short) to confirm that it has left the programming mode.	“LED” of the Radio 8113 UPMi “LED 1” of the Radio 8113 IP65

3.1.3 Deleting the radio timer codes from the memory of radio receivers

Steps	LED of the receiver confirming the performed action
Step 1. Enter the radio receiver programming mode	
Press and hold the programming button of the receiver min.4 sec until the LED of the receiver flashes yellow and then turns red. The radio receiver programming mode has been activated.	“LED” of the Radio 8113 UPMi “LED 1” of the Radio 8113 IP65
Step 2. Delete codes of the Radio 8152-50 from the memory of the receiver(s)	
Press and hold the programming button of the Radio 8152-50 for min.1 sec. until the LED of the radio receiver turns red. Then, release the radio timer programming button.	“LED” of the Radio 8113 UPMi “LED 1” of the Radio 8113 IP65
Step 3. Leave the programming mode of the receiver	
Press the programming button on the receiver. The receiver will beep and flash yellow twice (first long, then short) to confirm that it has left the programming mode.	“LED” of the Radio 8113 UPMi “LED 1” of the Radio 8113 IP65

3.2 Setting time

3.2.1 Setting current time

Steps	Actions to perform the step
Enter the radio timer PM mode	<i>Press and hold the button (M) for modes setting of the Radio 8152-50 for min. 2 sec. until some figures are displayed on its LCD.</i>
Set the current time	<i>Use the UP and/or DOWN buttons to set the current time. To add or take away one minute from the current time you should shortly press the UP or DOWN button correspondingly. If you hold the buttons, you'll activate the fast setting mode when the time will be rapidly changed by minutes after the fifth minute and by each 30 minutes after the first hour.</i>
Bring the radio timer back to the operation mode	<i>Shortly press the M button for modes setting of the Radio 8152-50 3 times.</i>

3.2.2 Setting opening and closing time for roller shutters

Steps	Actions to perform the step
Enter the radio timer PM mode	<i>Press and hold the M button for modes setting of the Radio 8152-50 for min. 2 sec. until some figures are displayed on its LCD.</i>
Go on to the mode of setting the opening time	<i>Shortly press the M button. The opening time will be displayed on the LCD and the symbol ▲ will be flashing.</i>
Set the opening time	<i>Using the UP and/or DOWN buttons set the roller shutter opening time.</i>
Go on to the mode of setting the closing time	<i>Shortly press the M button. The closing time will be displayed on the LCD and the symbol ▼ will be flashing.</i>
Set the closing time	<i>Using the UP and/or DOWN buttons set the roller shutter closing time.</i>
Bring the radio timer back to the operation mode	<i>Shortly press the M button.</i>

4 Operation of objects with the help of the Radio 8152-50

4.1 Battery

The radio timer Radio 8152-50 is powered by a lithium battery 3V (type CR2450). The average life time of the battery is up to 3 years long. Note! The low battery decreases the working range of the Radio 8152-50.

The low battery is indicated as the flashing symbol “bAtt” on the LCD while pressing the control buttons UP/DOWN. If the “bAtt” symbol is permanently displayed on the LCD, the battery is extremely low. In this case it should be replaced at once.

Note! After the battery has been extracted, you have one minute to insert a new battery and keep all the previous time settings. Otherwise, you will need to set the current time again.

4.2 Setting a working mode

To set the desired working mode, you should press the M button for modes setting as many times as necessary to list thru the modes and chose the necessary one. The chosen working mode is displayed on the bottom of the LCD. See Table1 in p.1.5.2 for the modes display indications.

4.3 Operation with the Radio 8152-50

4.3.1 Automatic operation

Using the automatic mode, the radio timer transmits commands to the radio receivers at set time.

4.3.2 Manual operation

- Press the UP button to open roller shutter.
- Press the DOWN button while the roller shutters are opening to stop them.
- Press the DOWN button to close roller shutters.
- Press the UP button while the roller shutters are closing to stop them.

If you hold the buttons for more than 1 sec while the roller shutters are moving up or down, the direction of their movement will be changed to the opposite one.

5 Storage

Store the receiver packaged indoors, in dry, heated, aerated premises at temperature from 0 to +25 °C and relative humidity up to 80 %. The air mustn't contain any acid, alkali and other aggressive substances.

6 Utilization

At the end of the operation life the device is due to be utilized. The product is safe and harmless for human's life and health as well as it is environmentally friendly. The receiver doesn't contain any non-ferrous or precious metals.

7 Warranty

24-month warranty since the date of purchase stated in the manual provided that all the requirements on transportation, storage, installation and operating conditions have been met. The given manual is a warranty certificate. The defective radio timer won't be accepted without its warranty certificate. Warranty doesn't apply to mechanically damaged products.

Some technical characteristics of the device can be changed by the producer without announcements.

8 Delivery set

the radio timer Radio 8152-50, pcs. 1
manual, pcs. 1
package, pcs. 1

9 Acceptance record

Quality Control Mark	Signature	Date
	Inspector/controller/supervisor	_____ 201_