433 MHz CE In order to fully explore available functions of PIXEL series please take a moment and read this manual before using the device. PIXEL transmitters are compatible with all YOODA brand devices.

1. General information

1. Control:
can control single motor,
or a group of up to 20 motors on each channel
remote has 99 channels
and allows to create 99 groups of devices

2. Range:
200 meters outdoor,
35 meters indoor

3. Geographical coordinates:
34°00' N - 71°59' N
0°00' E - 68°59' E

4. Battery:
2 x AAA

5. Power supply:
3 V

6. Dimensions:
160 x 44 x 15 mm

7. Transmitting power:
10 mW

8. Operating temperature:
from 0°C to + 50°C

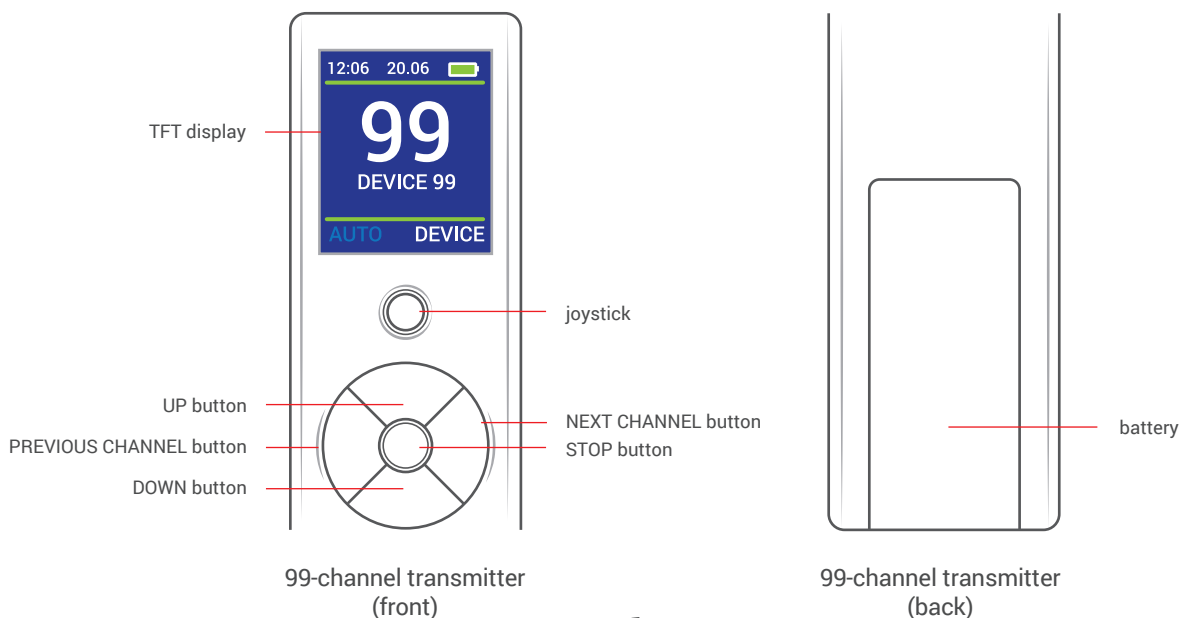9. Protection degree:
IP 30

Illustrations (from the top):
Fig. 1. 99-channel PIXEL remote control with timer, black
Fig. 2. 99-channel PIXEL remote control with timer, black

⚠ Radio receiver range is a variable value and can differ from declared values depending on conditions in which device operates. Possible sources of changes in range are building construction, interference caused by other radio transmitters etc.

2. Detailed description

TFT display

joystick

UP button

PREVIOUS CHANNEL button

DOWN button

NEXT CHANNEL button

STOP button

battery

99-channel transmitter
(front)

99-channel transmitter
(back)

1. Display can be lit by pushing any button or, thanks to built-in motion sensor, after lifting remote control.

2. Short pressing of joystick will change DEVICE screen to GROUP and vice versa. When display shows DEVICES, by using UP, STOP and DOWN buttons you can control roller shutter on chosen channel. When display shows GROUP, by using UP, STOP and DOWN buttons you can control chosen group of roller shutters.

3. CHANNEL+ and CHANNEL- buttons are used to change devices or group of devices programmed to particular number. Longer push of these buttons will cause channels to change quickly.

4. Longer push of the joystick (more than 2 seconds) turns automatic AUTO mode on or off. In automatic mode it is possible for roller shutters or groups of devices to open or close at a specific, previously programmed time.

5. In the upper part of the screen current time, date and battery state is displayed. When screen brightness goes down it shows next time of sunrise and sunset.

6. Pushing simultaneously CHANNEL+ and CHANNEL- has the function of P2 programming button.

7. Battery lifespan lasts for approximately one year, when remote is used four times a day on average.

8. Batteries should be changed when screen stops to light up or when programmed devices stop to react when remote is used.

9. When placing battery in the remote check its polarity.

10. When screen shows '00' channel group mode is active allowing simultaneous control of all devices or groups of devices, that are programmed under every channel. On '00' group channel no programming procedures can be performed. '00' group channel is created automatically.
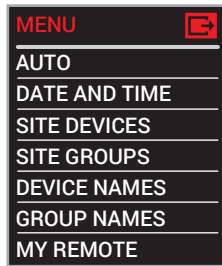
Batteries contain substances that may be hazardous to health and may pollute the environment. Used batteries should be disposed of properly.
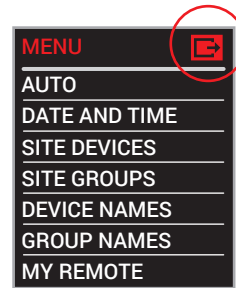
3. Menu
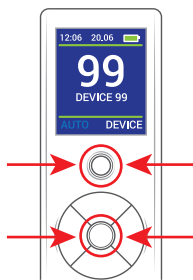
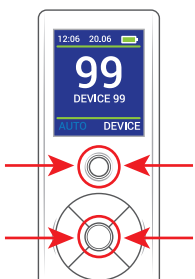Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick.

When exit button is highlighted pushing STOP button or joystick will cause for MENU screen to close.

3. Menu
3.1 Site devices

In **MENU -> SITE DEVICES** unused channels can be deactivated.

Simultaneous pushing joystick and STOP button activates MENU screen.

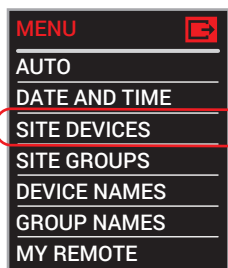Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

Switching between channel numbers is performed by pushing UP, DOWN, CHANNEL+ or CHANNEL- buttons or by using joystick. Activating and deactivating highlighted channel can by done by pushing STOP button or joystick.
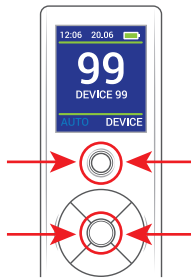
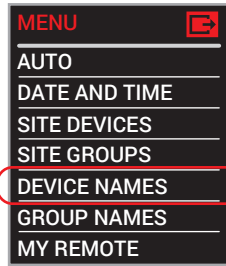By choosing white square all channels are activated. By choosing all channels are deactivated.

When exit button is highlighted pushing STOP button or joystick will make remote return to MENU screen.
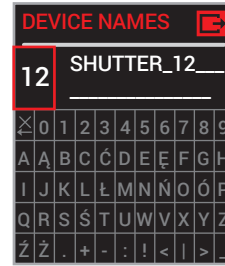
In **MENU -> DEVICE NAMES** it's possible to customize devices names. Each devices can be named using two lines of text, each consisting of up to 14 signs. When names are created choosing ⊠ option will deleted currently edited sign. ☐ option crates space between signs in devices name.

Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

Using CHANNEL+/CHANNEL- buttons or joystick choose channel of the device and select it by pushing STOP button or joystick.

Using UP, DOWN, CHANNEL+, CHANNEL- buttons or joystick switch to sign you want to change (sing is flashing). Confirm the change by pushing STOP button or joystick.

Using UP, DOWN, CHANNEL+, CHANNEL- buttons or joystick select the sign to which you want to change already previous sign (sing is flashing). To confirm the change press STOP button or joystick. That step automatically switches name editing to the next sign.

When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

In MENU -> SITE GROUPS there is an option to group site devices into groups of devices. Creating SITE GROUP allows to control greater number of devices simultaneously. Transmitter allows to create 99 groups of devices. Each group can include any programmed device (device needs to be active in SITE DEVICES menu).Not all groups will be displayed on a single screen. To switch through all 99 groups use navigation buttons.
Selecting at least one device by pushing STOP button or joystick will cause to create SITE GROUP.

Simultaneous pushing joystick and STOP button activates MENU screen.
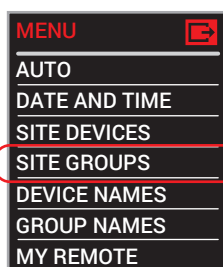
Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.
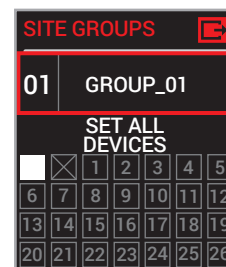
Using CHANNEL+/CHANNEL- buttons or joystick choose group of the devices to which you want to add new device. To select your choice press STOP button or joystick.

Choosing symbol of white square allows to create group including all 99 channels. Choosing symbol of square with X in the middle excludes all channels from the group.

Using UP, DOWN, CHANNEL+ or CHANNEL- buttons or joystick switch through options. Select or deselect group by pushing STOP button or joystick.

When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

3. Menu
3.4 Group names

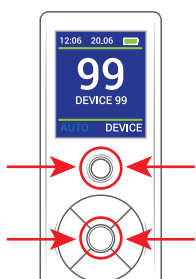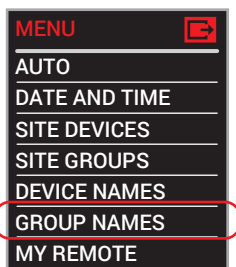In **MENU -> GROUP NAMES** it possible to change the name of each group of site devices. Each devices can be named using two lines of text, each consisting of up to 14 signs. When names are created choosing ⊠ option will deleted currently edited sign. ☐ option crates space between signs in devices name.

Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

Using CHANNEL+/CHANNEL- buttons or joystick choose channel of the device and select it by pushing STOP button or joystick.

Using UP, DOWN, CHANNEL+, CHANNEL- buttons or joystick switch to sign you want to change (sing is flashing). Confirm the change by pushing STOP button or joystick.

Using UP, DOWN, CHANNEL+, CHANNEL- buttons or joystick select the sign to which you want to change already previous sign (sing is flashing). To confirm the change press STOP button or joystick. That step automatically switches name editing to the next sign.

When exit button is highlighted pushing STOP button or joystick will cause for MENU screen to close.

3. Menu
3.5 My remote
Geographical coordinates

In **MENU -> MY REMOTE -> GEOGRAPHICAL COORDINATES** user can set individual location parameters (DM format). Using this data transmitter will determine the time of sunrise and sunset. Possible range of this data can be found in 'General Information' section at the top of this manual.
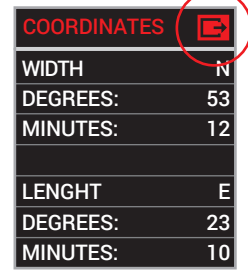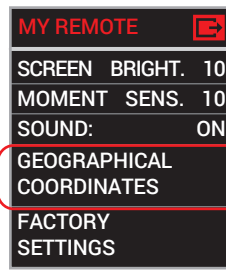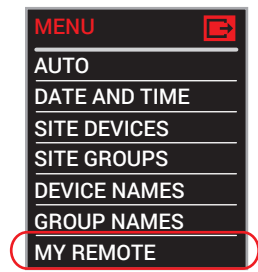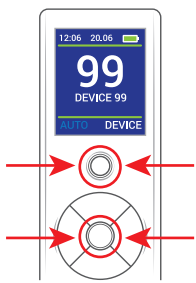
4

MENU
AUTO
DATE AND TIME
SITE DEVICES
SITE GROUPS
DEVICE NAMES
GROUP NAMES
MY REMOTE

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

COORDINATES
WIDTH N
DEGREES: 53
MINUTES: 12
LENGHT E
DEGREES: 23
MINUTES: 10

COORDINATES
WIDTH N
DEGREES: 53
MINUTES: 12
LENGHT E
DEGREES: 23
MINUTES: 10

Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.
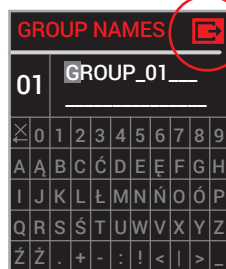
Switch to geographical coordinates by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

By pushing UP or DOWN button or joystick select the parameter you want to change. By using CHANNEL+ or CHANNEL- buttons or joystick select latitude and longitude figures.
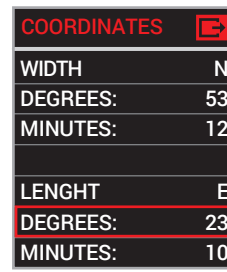
When exit button is highlighted pushing STOP button or joystick will make remote return to MENU screen.

Screen brightness

In **MENU -> MY REMOTE -> SCREEN BRIGHTNES** you can change screen brightness in scale from 0 to 10, where 0 represents lowest brightness, and 10 represent highest brightness.

MENU
AUTO
DATE AND TIME
SITE DEVICES
SITE GROUPS
DEVICE NAMES
GROUP NAMES
MY REMOTE

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

12:06 20.06
09
SCREEN BRIGHTNES
AUTO   DEVICE

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.
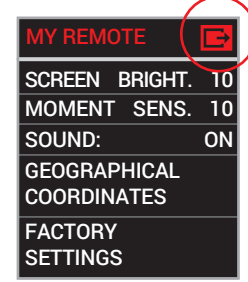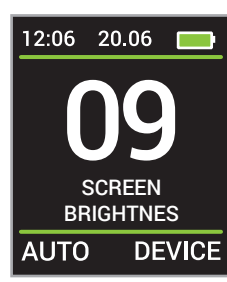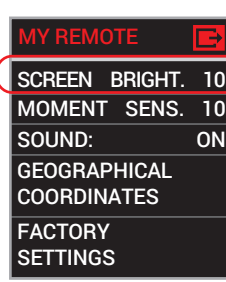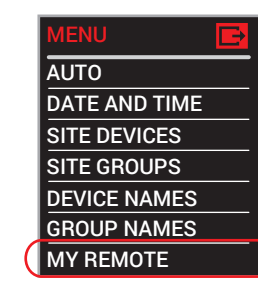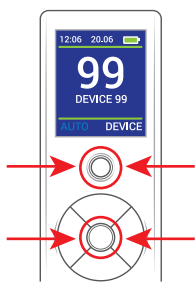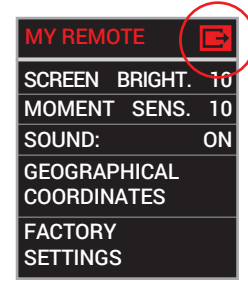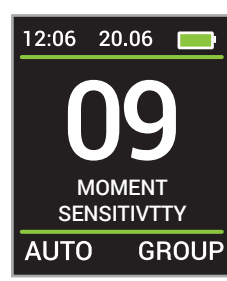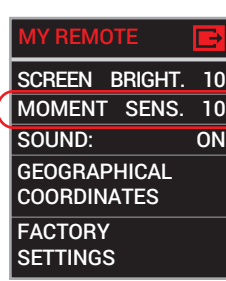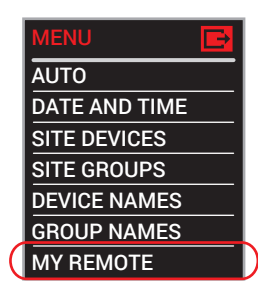
Switch to screen brightness by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

By pushing CHANNEL+ or CHANNEL- buttons or joystick choose screen brightness. Pushing CHANNEL+ or CHANNEL- buttons or joystick choose screen brightness. Pusching STOP button will confirm selected value.

When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

Movement sensitivity

In **MENU -> MY REMOTE -> SCREEN BRIGHTNES** you can change screen brightness in scale from 0 to 10, where 0 represents lowest brightness, and 10 represent highest brightness.

MENU
AUTO
DATE AND TIME
SITE DEVICES
SITE GROUPS
DEVICE NAMES
GROUP NAMES
MY REMOTE

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

12:06 20.06
09
MOMENT SENSITIVTTY
AUTO   GROUP

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

Switch to movement sensitivity by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

By using CHANNEL+ or CHANNEL- buttons or joystick choose movement sensitivity. Pushing CHANNEL+ or CHANNEL- buttons or joystick choose screen brightness. Pusching STOP button will confirm selected value.

When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

Sound

In **MENU -> MY REMOTE -> SOUND** you can turn on or off sound signals.

MENU
AUTO
DATE AND TIME
SITE DEVICES
SITE GROUPS
DEVICE NAMES
GROUP NAMES
MY REMOTE

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

MY REMOTE
SCREEN BRIGHT. 10
MOMENT SENS. 10
SOUND: ON
GEOGRAPHICAL COORDINATES
FACTORY SETTINGS

Simultaneous pushing joystick and STOP button activates MENU screen.

Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.

Using UP or DOWN buttons or joystick select sound. Using STOP button or joystick turn the sound signals on or off.

When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

Factory settings

In **MENU -> MY REMOTE -> FACTORY SETTING** you can restore factory setting of the remote.

WARNING:
Selecting this option will restore factory settings. Remote will lose the ability to control any devices, as all programmed data will be deleted - devices, groups, names, geographical coordinates etc.

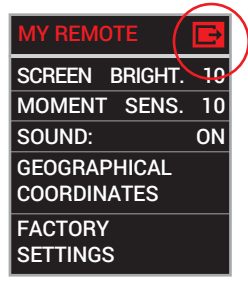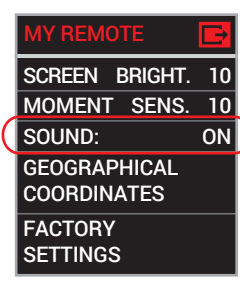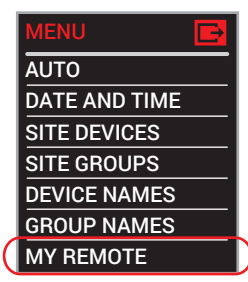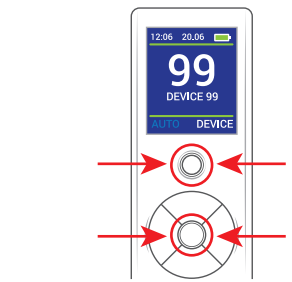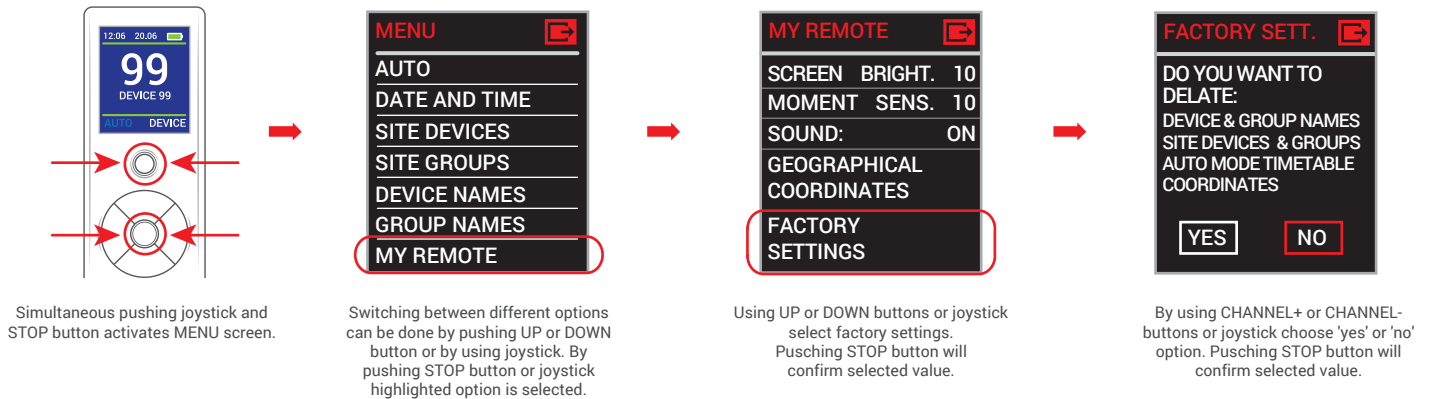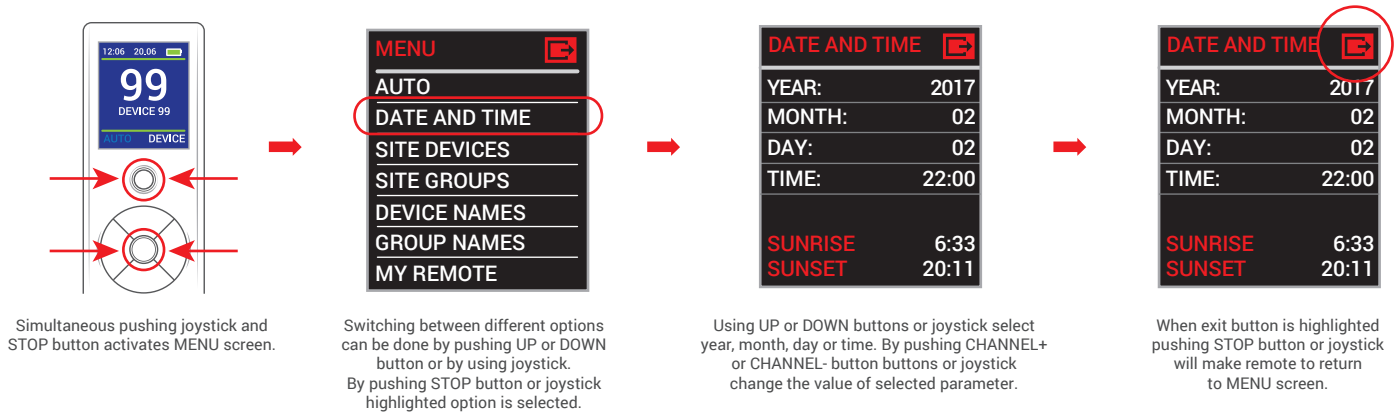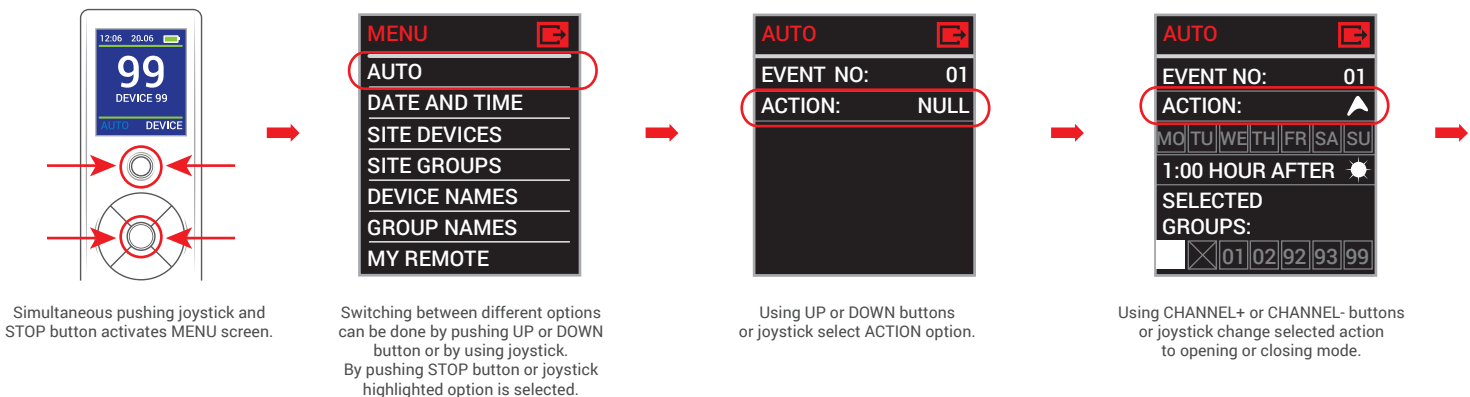|			
	MENU ⏻ AUTO DATE AND TIME SITE DEVICES SITE GROUPS DEVICE NAMES GROUP NAMES MY REMOTE	**MY REMOTE** ⏻ SCREEN BRIGHT. 10 MOMENT SENS. 10 SOUND: ON GEOGRAPHICAL COORDINATES FACTORY SETTINGS	**FACTORY SETT.** ⏻ DO YOU WANT TO DELATE: DEVICE & GROUP NAMES SITE DEVICES & GROUPS AUTO MODE TIMETABLE COORDINATES YES NO
Simultaneous pushing joystick and STOP button activates MENU screen.	Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.	Using UP or DOWN buttons or joystick select factory settings. Pusching STOP button will confirm selected value.	By using CHANNEL+ or CHANNEL- buttons or joystick choose 'yes' or 'no' option. Pusching STOP button will confirm selected value.

3. Menu
3.6 Setting current date and time

In **MENU -> DATE AND TIME** there is an option to set current date (year, month, day) and time (24 hour format). Basing on this information transmitter will calculate times of sunrise and sunset for every day, what allows for AUTO mode to be activated.
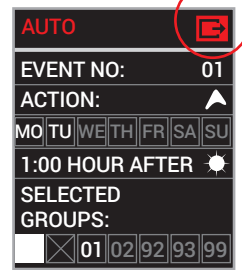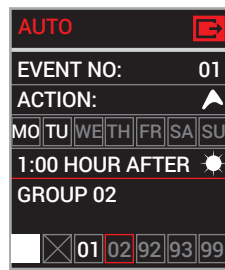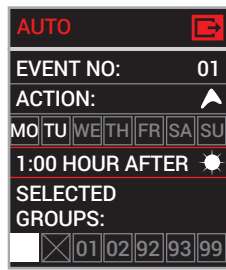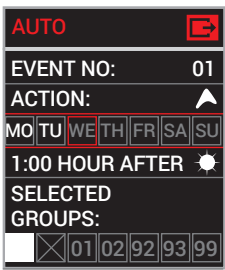
	MENU ⏻ AUTO DATE AND TIME SITE DEVICES SITE GROUPS DEVICE NAMES GROUP NAMES MY REMOTE	**DATE AND TIME** ⏻ YEAR: 2017 MONTH: 02 DAY: 02 TIME: 22:00 SUNRISE 6:33 SUNSET 20:11	**DATE AND TIME** ⏻ YEAR: 2017 MONTH: 02 DAY: 02 TIME: 22:00 SUNRISE 6:33 SUNSET 20:11
Simultaneous pushing joystick and STOP button activates MENU screen.	Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.	Using UP or DOWN buttons or joystick select year, month, day or time. By pushing CHANNEL+ or CHANNEL- button buttons or joystick change the value of selected parameter.	When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

3. Menu
3.7 Automatic mode

In **MENU -> AUTO** it is possible to define up to 28 different EVENT. A single EVENT is an ACTION with a ⏶ opening symbol or ⏷ closing symbol. If the EVENT should be deactivated choose "ACTION: NULL".

	MENU ⏻ AUTO DATE AND TIME SITE DEVICES SITE GROUPS DEVICE NAMES GROUP NAMES MY REMOTE	**AUTO** ⏻ EVENT NO: 01 ACTION: NULL	**AUTO** ⏻ EVENT NO: 01 ACTION: ⏶ MO TU WE TH FR SA SU 1:00 HOUR AFTER ☀ SELECTED GROUPS: 01 02 92 93 99	
Simultaneous pushing joystick and STOP button activates MENU screen.	Switching between different options can be done by pushing UP or DOWN button or by using joystick. By pushing STOP button or joystick highlighted option is selected.	Using UP or DOWN buttons or joystick select ACTION option.	Using CHANNEL+ or CHANNEL- buttons or joystick change selected action to opening or closing mode.	

6

"Action" can be repeated after selecting days of the week and then confirming it by pushing STOP button or joystick. In AUTO mode active days of the week will be signed with white colour, and not active days with grey colour.

Select one of the available options to repeat 'action'. By pressing STOP button or joystick edit the time of 'action'.

By pressing STOP button or joystick confirm chosen groups of devices included in the 'event'.

When exit button is highlighted pushing STOP button or joystick will make remote to return to MENU screen.

(!) Each 'action' can be set using one of the following repeating options:

AT 7:00	Setting time exactly at the selected time
01:20 HOUR BEFORE ☀	Setting time (HH:MM) before sunrise
01:30 HOUR AFTER ☀	Setting time (HH:MM) after sunrise
☀ NOT BEFORE 6:20	Setting time at the sunrise, but not earlier that at (HH:MM)
01:20 HOUR BEFORE ☾	Setting time (HH:MM) before sunset
01:30 HOUR AFTER ☾	Setting time (HH:MM) after sunset
☾ NOT AFTER 20:00	Setting time at the sunset, but not later than at (HH:MM)

(!) WARNING:
Only 4 SITE GROUPS are visible on a default screen. Navigate through fifth and further groups by using CHANNEL+ or CHANNEL- buttons or joystick.

(!) WARNING:
Longer push of joystick when in DEVICE or GROUP screen will turn AUTO mode on or off.

4. Programming first remote with R-type motors

(!) 1. Way of programming first transmitter depends on type of radio receiver. When programming first transmitter please follow instruction of the device that is going to be controlled by the transmitter.
2. Longer than 5 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
3. Longer than 5 seconds pause between series of button clicks during programming will cause device to switch off from programming mode without saving any changes.
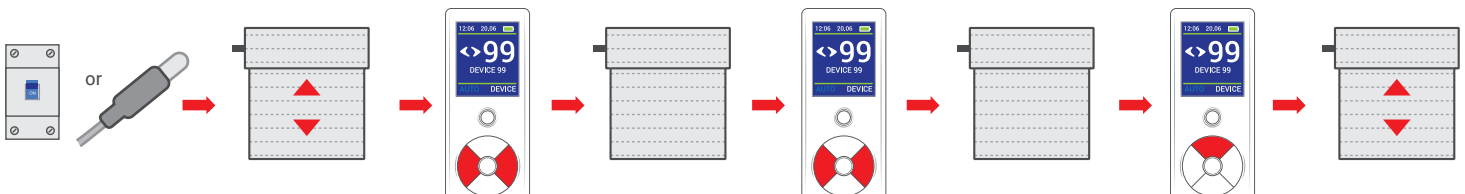
Turn on power supply or press microswitch (for 2 sec.) when power is on.

Motor will make a sound. Roller shutter will make an up/down move.

Push CHANNEL+ and CHANNEL- simultaneously on the remote.

Motor will make a sound.

Push CHANNEL+ and CHANNEL- simultaneously on the remote.

Motor will make a sound.

Push UP button on the remote.

Roller shutter will make an up/down move as the motor will make few sounds.