

User Manual of MOBILUS C-ZR external receiver

1. GENERAL INFORMATION

Module MOBILUS C-ZR is remotely controllable MOBILUS unit operating in COSMO / COSMO | 2WAY system, designed for mounting in a wall junction box or wherever there is a need to control blinds. With it, you can lift and lower the shutters, adjust the angle of the lamellas position, remotely by radio using dedicated COSMO / COSMO | 2WAY controllers, using the smart home control unit COSMO | GTW or directly from the connector connected to the module.

2. IMPORTANT INFORMATIONS

- Read the instructions carefully before use.
- When unpacking the unit, make sure that there is no damage in the transport. If so, you should immediately inform the supplier.
- Read the operating manual carefully before use.
- MOBILUS C-ZR module should be powered by 230 V ~, 50 Hz. Its installation should only be corried out by persons with electrical qualifications according to the enclosed electrical diagram in accordance with all applicable regulations.
- The appliance must be installed in place not accessible for children.
- The MÖBILUS C-ZR module is designed to work with all COSMO / COSMO | 2WAY series remote controls, but its full functionality is provided by COSMO | HB, COSMO | HM, COSMO | HCT and COSMO | GTW smart home control unit.
- The range of the radio control is limited by regulations for maximum power of the remote control and the conditions of the installation of the equipment. When designing the location of the remote control, consider limiting the range to about 20m by 2 walls.
- Declaration of Conformity:
 We declare under our sole responsibility that the MOBILUS C-ZR complies with the following European Directives:
 - 1. 2014/53 / EU RED Radio Directive:
 - 2. 2014/30 / EU Electromagnetic Compatibility Directive.

3. PRODUCT DESCRIPTION



- 1 Antenna
- 2. Illuminated PROGRAMMING BUTTON P.
- 3. Connection terminals:
 - N Neutral line;
 - L phase line;
 - ↑ UP; ↓ - DOWN:
 - S1 switch up;
 - S2 switch down:

4. TECHNICAL PARAMETERS

Power supply voltage: 230 V~; 50 Hz.

Radio protocol: COSMO I 2WAY, COSMO.

Frequency: 868 MHz.

Signal strength: up to 1 mW.

Range in building: 40 [m]. The range of the radio signal depends on the type of construction, used materials and placement of units.

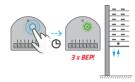
Installation location – concealed box $\emptyset \ge 50$ mm.

Working temperature: 0 °C - 40 °C.

Dimensions – 44 x 46 x 19 mm.

5. ENTRY INTO THE MODULE PROGRAMMING MODE

Press and hold a programming button on module MOBILUS C-ZR above 5 sec until the connected actuator executes one sequence of noticeable and audible micro movements down / up confirming the entrence of the receiver in the PROGRAMMING MODE - Fig. 2. In addition, in 1 second intervals the diode is blinking.



WARNING! If within 20 seconds no programming will be performed, the MOBILUS C-ZR radio module automatically exits from the programming mode. Connected actuator executes one sequence of noticeable and audible micro movements down / up, blinks are stopped.

6. LOADING THE MASTER-A * CODE TO THE RECEIVER MEMORY

Enter the MOBILUS C-ZR PROGRAMMING MODE.

Fig. 2

- 2. Press and hold the STOP and UP buttons simultaneously on the remote control Fig. 3.
- 3. The MASTER pilot reads two short beeps from the module.
 - The MASTER-a code has been loaded into memory and the module goes to the WORK MODE. Now, with the MASTER remote control, you can operate the units or enter the PROGRAM MODE to load more remote controls.

CONTINUED 6. LOADING THE MASTER-A * CODE TO THE RECEIVER MEMORY



WARNING In the case of a multi-channel remote control select only one channel to be MASTER.

NOTE For the convenience of programming, it is recommended that each COSMO [C-ZR module had its own separate MASTER (remote control (separate channel for multi-channel remotes). Avoid situations where several COSMO [C-ZR modules remote controls will have common MASTER (shared channel).

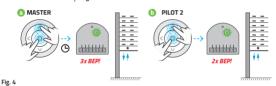




*MASTER - remote control or channel (in the case of a multi-channel remotes) loaded first into the memory of the MOBILUS C-ZR module. Allows you to program further remote controls.

7. PROGRAMMING OF THE SECOND AND EVERY OTHER REMOTE CONTROL

- On the MASTER remote control, simultaneously press and hold the STOP and UP
 until the connected actuator performs one sequence of noticeable and audible micro
 movements down / up, the module will release three short beeps, confirming entry into the
 PROGRAMMING MODE Fig. 4a. Additionally in this mode every 1 sec. the diode is blinking.
- On the second remote control (for the multi-channel remote control, select the channel you want to program), press and hold both STDP and UP buttons simultaneously, until the connected actuator performs one sequence of noticeable and audible micro movements down / up, the module will release two short beeps. The remote (channel) was loaded into the receiver's memory - Fig. 4b.



Repeat step 2 to load the next remote control. If, however, no programming operation is started within 20 seconds, the module automatically returns to operating mode - the module will output one long beep. Return to operating mode can also be performed manually using MASTER. In such a situation, press and hold the STOP and UP MASTER buttons simultaneously at the same time. In both cases, the return to operating mode will be confirmed by one long beep.

8. CHANGING THE DIRECTION OF THE ACTUATOR

- f you press the UP button on the remote control and the armor goes down, change the direction of rotation of the drive. At the same time, press and hold:
 - a) on the remote control COSMO | HM, | HB buttons STOP and DOWN Fig. 5b;
 - b) on the remote control COSMO | HCT buttons UP and F3 Fig. 5c;
 until the drive executes one sequence of micro down / up moves.
- 2. Check the UP / DOWN buttons Fig. 5d.

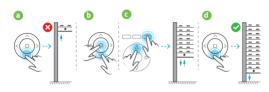


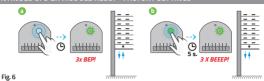
Fig. 5

9. C-ZR MODULE RESET - FACTORY SETTINGS

WARNING!! RESTORATION OF FACTORY SETTINGS erases all programmed remotes from the MOBILUS C-ZR module.

- 1. Enter the PROGRAMMING MODE for the MOBILUS C-ZR module Fig. 6a.
- In the PROGRAMMING MODE, press and hold the programming key above 5 seconds Fig. 6b. All previously loaded remote modules have been removed from the memory module which confirms one sequence of noticeable and audible micro moves down / up of the connected actuator and three long beeps.

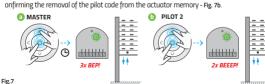
CONTINUED 9. C-ZR MODULE RESET - FACTORY SETTINGS



10. REMOVAL OF INDIVIDUAL REMOTES (CHANNELS)

It is possible to delete only one of the programmed remotes (not for MASTER remote). To do this:

- On the MASTER, press simultaneously and hold the STOP and UP buttons until the connected actuator executes one sequence of noticeable and audible mirro movements down / up, the module will release two short beeps, confirming the receiver's entrance into the programming mode - Fig. 7a. Additionally in this mode every 1 sec. the diode is blinking.
- On the remote control (channel) that you want to delete, press and hold the STOP and UP buttons simultaneously until the connected actuator performs one sequence of noticeable and audible micro movements down / up, MOBILUS C-ZIP receives two long beeps onfirming the removal of the pilot code from the actuator memory - Fig. 7b.



CONTINUED 10. REMOVAL OF INDIVIDUAL REMOTES (CHANNELS)

WARNING: Repeat step 2 to proceed to remove the next remote control. However, if within 20 sec. no programming operation is started, the receiver automatically returns to operating mode Return to operating mode can also be performed manually using the MASTER. In such a situation, simultaneously press and hold the STOP and MASTER buttons until the connected actuator executes one sequence of noticeable and audible micro movements down / up. In both cases, the return to operating mode will be through one sequence of micro down / top moves of the connected actuator.

11. CONNECTING THE ADDITIONAL SWITCH / DRIVER

It is possible to connect an external keyboard connector (without support) - Fig. 8.1, bell connector - Fig. 8.2, control via a controller with relay output - Fig. 8.3. They must be connected according to the attached diagram.

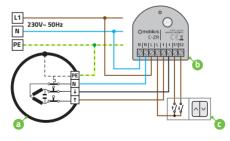
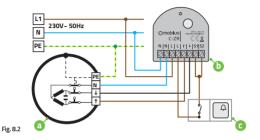


Fig. 8.1

CONTINUED 11. CONNECTING THE ADDITIONAL SWITCH / DRIVER



12. CONTROL OF THE POSITION OF THE SHUTTER AND SLOPE OF THE LAMELLAS - CONNECTOR

Control of the position of the shutter up / down. Briefly pressing the key corresponding to the direction will lower or raise the louver to the appropriate end positions. The operation stops after a short press of the opposite key to the current shutter motion.

Lamella's slope control. Lone holding down one of the connector keys will cause the lamella to

Lamella's slope control. Long holding down one of the connector keys will cause the lamella to rotate slowly. If the lamella is in the required position, release the key.

13. CONTROL OF THE POSITION OF THE SHUTTER AND SLOPE OF THE LAMELLA - REMOTE CONTROL

You can control the position (up / down) of the shutter with all COSMO | ZWAY remotes. Full control, along with the possibility to set the slope of the lamella is provided only by the following remote controls: COSMO | HM, COSMO | HB, COSMO | HCT.

Appropriate operating mode should be setted.

- For remotes COSMO | HM, COSMO | HB.

 1. Press < / > to activate the remote control.
- 2. Press the P2 function key located on the rear of the controller Fig. 10.
- 3. Set II operating mode two blue LEDs will light up.

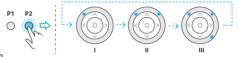


Fig. 10

For remotes COSMO | HCT (for software from 2.4.0-4.0)

1. Go to the SETTINGS tab -> OTHER -> OPERATION MODE.

- Select II OPERATION MODE.
- 3. Save settings.

Control of the up / down position of the shutter. Briefly pressing the button corresponding to the direction \(^{\su} \) \(^{

Lamellas slope control. Long pressing of one of the remote control ○ / V UP / DOWN buttons will cause the lamella to rotate slowly. If the lamella is in the required position, release the button.

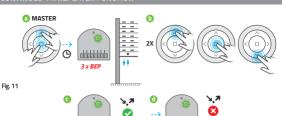
14. REPEATER FUNCTION

SIGNAL REPEATER - This feature allows you to expand the radio control area. The MOBILUS C-ZR module with the repeater function enabled receives signals from the controller or actuators and passes them forward. Thanks to the furthest located receivers which are not within the controller can receive and transmit information through modules located indirectly. Turn on the repeater function:

- Press the STOP and UP buttons simultaneously on the MASTER until the connected actuator executes
 one sequence of noticeable and audible micro movements down / up, the MOBILUS C-ZR module will
 issue three short beeps confirming entry into the PROGRAMMING MODE. Additionally in this mode
 every 1 sec, the diode is blinking.
- On the remote control, press the button sequence: UP, STOP, DOWN, UP, STOP, DOWN. Activation
 of the repeater function will cause three sequences of DOWN-UP micro-movements by the
 actuator, in addition, it will output the sequence of audio signals from the module: 3 short, 3 short,
 1 long Fig. 11c.
 Repeat step 1 to deactivate the repeater function. Then press the button sequence: UP, STOP,
- Repeat step 1 to deactivate the repeater function. Then press the button sequence. UP, STOP, DOWN, UP, STOP, DOWN -confirmation of deactivation is the execution of two sequences of micro-DOWN-UP movements by connected actuator and release of sequence of sound signals from the module. 3 short, 1 long - Fig. 11d.

WARNING! Turn on the repeater function only on devices that are within range of the signal range. Because of the efficient work, we recommend that you enable the signal repeater function on up to three devices in the facility. Unreasonable inclusion of signal repeater on many devices may cause interference in all radio equipment.

CONTINUED 14. REPEATER FUNCTION



3x BEP. 1x BEEEEP

15. BIDIRECTIONALITY

MOBILUS C-ZR with two-way communication with the remote control allows control of the state of shutter position (eg. open, closed, intermediate level).

3x BEP. 3x BEP.

1_Y REFEED

Proper operation of bidirectional communication requires the use of pilots with bidirectional communication.

Remote controls supporting two-way communication: MOBILUS COSMO | HCT, COSMO | G3+, COSMO | HM, COSMO | HB, COSMO | WT9, COSMO | WT.

16. BI-DIRECTIONAL - INFORMATION ABOUT THE POSITION OF THE SHUTTER

The MOBILUS C-2R transmits information to the remote control about the shutter position and the intermediate position, as well as the angle of the lamellas (for the COSMO | GTW). Mode is automatically turned on - there is no deactivation.

17. BI-DIRECTIONAL - OVERLOAD INFORMATION

MOBILUS C-ZR transmits information to remotes about overload - for example, it may be related to a housing lock occurring at the time of raising or lowering, Mode is factory-setted - it is possible to turn off.

Enable / disable of overload detection:

At the MASTER remote control press and hold the STOP and UP buttons simultaneously
until the connected actuator performs one sequence of noticeable and audible micro
movements down / up confirming the receiver input into the programming mode - Fig. 14a.
Additionally in this mode every 1 sec. the diode is blinking.

2. On the MASTER, press the STOP button and hold until the actuator connected to the

- MOBILUS C-MR module will perform two sequences of noticeable and audible micro movements down / up. Overload detection active Fig. 14b.

 To stop the overload detection, repeat step 1. Then press the STOP button on the MASTER control and hold until the actuator connected to the MOBILUS C-ZR module will perform 1.
- sequence of noticeable and audible micro moves down / up Fig. 14c.

 MASTER

 MASTER

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Fig. 14

18. SETTING OF THE SWITCHING TIME OF RELAYS

MOBILUS C-ZR allows you to change the relay switching time. This operation is necessary, for example, for very high shutters. By default this time is 120 seconds.

CONTINUED 18. SETTING OF THE SWITCHING TIME OF RELAYS

- Press MASTER at the same time and hold the STOP and UP buttons until the connected actuator performs one sequence of noticeable and audible micro movements down / up, confirming the receiver entry into the programming mode - Fig. 15a. Additionally in this mode every 1 sec. the LED flashes.
- 2. On the MASTER, press the UP button Fig. 15b. The blind will begin to rise.
- At the moment when the user presses the STOP key, the new relay operating time is saved - Fig. 15c.



19. ENVIRONMENTAL PROTECTION



This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and further amendments. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. It shall be handed over to the applicable collection point for the waste electrical and electronic equipment for recycling purpose. For more information about recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchosed the product.



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