



User Manual of MOBILUS C-GR external receiver

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1. GENERAL INFORMATION

Control panel MOBILUS C-GR is remotely controllable unit MOBILUS operating in COSMO / COSMO [2WAY system, designed for use in a wall switch box or wherever there is a need for gate control. The module allows the gate to be controlled by converting the signal received from the controller to the potential free signal given to the gateway input. In addition, the MOBILUS C-GR module is equipped with terminals for connection of limit switches K1 and K2.

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-GR module should be powered by 230 V ~, 50 Hz. Its installation should only be carried 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 MOBILUS C-GR module is designed to work with all COSMO / COSMO | 2WAY series remote controls.
- 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-GR 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;
 - IN relay input terminal;
 - OUT relay output terminal;
 - COM sensor supply;
 - K1 first sensor;
 - K2 second sensor;

4. TECHNICAL PARAMETERS

Power supply voltage: 230 V-; 50 Hz. Radio protocol: COSMO | 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 64 x 19 mm.

5. INSTALLATION OF THE DEVICE

- 1. Make sure the mains voltage is disconnected.
- 2. Connect the MOBILUS C-GR module as shown in Fig. 5.
- 3. Place the MOBILUS C-GR module in the electrical box.
- 4. Properly align the antenna (as far away as possible from metal elements).
- 5. Turn on the mains voltage.

It is possible to connect external reed switches that determine the position of the gate.

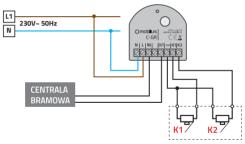


Fig. 5

6. ENTRY INTO THE MODULE PROGRAMMING MODE

Press and hold a programming button on module **MOBILUS C-GR** above 5 sec. Three short beeps confirm the entrence of the module in the PROGRAMMING MODE. In addition, in 1 second intervals the diode is bilinking.

WARNING! If within 20 seconds no programming will be performed, the MOBILUS C-GR radio module automatically exits from the programming mode. Beeps and blinks are stopped.



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

- 1. Enter the MOBILUS C-GR PROGRAMMING MODE.
- Press and hold the STOP and UP buttons simultaneously on the remote control.
- 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.



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-GR module had its own separate MASTER (remote control (separate channel for multi-channel remotes). Avoid situations where several COSMO | C-GR modules remote controls will have common MASTER (shared channel).



CONTINUED 7. LOADING THE MASTER-A * CODE TO THE RECEIVER MEMORY



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

8. PROGRAMMING OF THE SECOND AND EVERY OTHER REMOTE CONTROL

- On the MASTER remote control, simultaneously press and hold the STOP and UP the module will release three short beeps, confirming entry into the PROGRAMMING MODE -Fig. 8a. 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 STOP and UP until the module will release two short beeps.



CONTINUED 8. PROGRAMMING OF THE SECOND AND EVERY OTHER REMOTE CONTROL

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.

9. MODULE C-GR RESET - FACTORY SETTINGS

WARNING!!! RESTORATION OF FACTORY SETTINGS erases all programmed remotes from the

MOBILUS C-GR module.

- 1. Enter the PROGRAMMING MODE for the MOBILUS C-GR module- Fig. 9a.
- In the PROGRAMMING MODE, press and hold the programming key above 5 seconds Fig. 9b. All previously loaded remote modules have been removed from the memory module, which is confirmed with three long beeps.



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, simultaneously press and hold the STOP and UP buttons until the connected receiver outputs two short beeps, confirming the receiver's input in the PROGRAMMING MODE - Fig. 10a. Additionally in this mode every 1 sec. the diode is blinking.
- On the remote control (channel) you want to clear, press and hold both STOP and UP buttons until MOBILUS C-GR receives two long beeps, confirming that the remote code is removed from the receiver memory. - Fig. 10b.

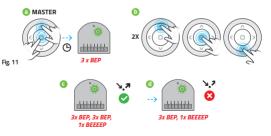


WARNINGI Repeat step 2 to proceed to remove the next remote control. However, if within 20 sec. no programming operation is started, the receiver automatically returns to operating mode. Return to operating mode can also be performed manually using the MASTER. In such a situation, simultaneously press and hold the STOP and MASTER buttons. In this case, press and hold the STOP and MASTER buttons simultaneously. In both cases the return to operating mode will be confirmed by two beeps from the receiver MOBILUS C-GR.

11. REPEATER FUNCTION

SIGNAL REPEATER - This feature allows you to expand the radio control area. MOBILUS C-GR module 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 MOBILUS C-GR module will issue three short beeps confirming entry into the PROGRAMMING MODE.- Fig. 11a.
- On the remote control, press the button sequence: UP, STOP, DOWN, UP, STOP, DOWN, Fig. 11b. Activation of the repeater function will cause three sequences 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, DOWN, UP, STOP, DOWN - confirmation of deactivation release of sequence of sound signals from the module. 3 short, 1 long - Fig. 11d.



CONTINUED 11. REPEATER FUNCTION

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.

12. BIDIRECTIONALITY

MOBILUS C-GR module thanks to two-way communication with the remote control and informations from connected reed switches, it allows to control the state of the gate (eg. open, closed, intermediate level). Proper operation of bidirectional communication requires the use of pilots with bidirectional communication and reed contactors.

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

13. BIDIRECTIONAL - INFORMATION ABOUT THE POSITION OF THE BLIND

COSMO C-GR transmits information about the end position and intermediate position blinds to remate controls. The mode is switched on automatically - there is no possibility of deactivation. WARNING! Connection of reed switches is required.

14. ENVIRONMENTAL PROTECTION



This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EQ) 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 purchased the product.

15. CONTROL REMOTES - "COSMO" SERIES



COSMO | HCT COSMO | HB COSMO | HM COSMO | G3+











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