



User Manual of MOBILUS C-MR external receiver

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1. IMPORTANT INFORMATIONS

- 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-MR 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.
- MOBILUS C-MR 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-MR complies with the following European Directives:
 - 1. 2014/53 / EU RED Radio Directive;
 - 2. 2014/30 / EU Electromagnetic Compatibility Directive.
 - 3. 73/23/EWG Low Voltage Directive.

2. ENTRY INTO THE MODULE PROGRAMMING MODE

Press and hold a programming button on module MOBILUS C-MR 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.

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



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

- 1. Enter the MOBILUS C-MR PROGRAMMING MODE.
- Press and hold the STOP and UP buttons simultaneously on the remote control until the connected actuator executes one sequence of noticeable and audible micro movements down / up.
- 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-MR module had its own separate MASTER (remote control (separate channel for multi-channel remotes). Avoid situations where several COSMO [C-MR 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-MR module. Allows you to program further remote controls.

4. 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 executes one sequence of noticeable and audible micro movements down / up confirming the entrence of the receiver in the PROGRAMMING MODE - Fig. 4a. Additionally in this mode every 1 sec. the diade 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 buttons simultaneously, until the connected actuator performs one sequence of noticeable and audible micro movements down / up. The remote (channel) was loaded into the receiver's memory - Fig. 4b.



Fig. 4

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. Return to operating mode can also be performed manually using **MASTER**. In such a situation, press and hold the **STOP** and **UP MASTER** buttons. In both cases, the return to operating mode will be confirmed by a single sequence of micro movements down / up of the connected actuator.

5. CHANGING THE DIRECTION OF THE ACTUATOR

- If 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, | G3+, | WT9, | WT buttons STOP and DOWN - Fig. sb;
 b) on the remote control COSMO | HT, | H24, | H1, | H5, | G, | W1, | W7 buttons DOWN and UP - Fig. sc;
 c) on the remote control COSMO | HCT UP and F3 buttons - Fig. 5d;
 until the drive executes one sequence of micro down / up moves.
- 2. Check the UP / DOWN buttons Fig. 5e.



6. C-MR MODULE RESET - FACTORY SETTINGS

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

MOBILUS C-MR module.

- 1. Enter the PROGRAMMING MODE for the MOBILUS C-MR 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.

CONTINUED 6. C-MR MODULE RESET - FACTORY SETTINGS



7. 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 micro movements down / up, confirming the receiver's entrance into the programming mode - Fig. 7a. Additionally in this mode every 1 sec. the diade 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, confirming the removal of the pilot code from the actuator memory - Fig. 7b.



CONTINUED 7. REMOVAL OF INDIVIDUAL REMOTES (CHANNELS)

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 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.

8. 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



9. CHANGING THE OPERATION MODE OF CONTROL BUTTONS

The MOBILUS C-MR module allows you to change the operating mode of the control buttons I. MODE WITH HOLD UP - Pressing the key causes the roller shutter to be lowered or raised. II. MODE WITHOUT HOLD UP - Lowering or raising the controlled roller shutter continues as long as the control key is pressed.

To change the operation mode of the control buttons:

- On the MASTER, press simultaneously 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 entrance in the PROGRAMMING MODE - Fig. 9a. Additionally in this mode every 1 sec. the diade is blinking.
- On the MASTER, press the DOWN button and hold until the actuator connected to the COSMO C-MR module will perform two sequences of noticeable and audible micro movements down / up. HOLD UP MODE is active - Fig. 9b.
- To switch to MODE WITHOUT MAINTAIN, repeat step 1, then on the MASTER push button DOWN and hold until connected to the module COSMO C-MR actuator performs a sequence of visible and audible micro movements up / down - Fig. 9c.



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10. REPEATER FUNCTION

SIGNAL REPEATER - This feature allows you to expand the radio control area. The MOBILUS C-MR 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 unli the connected actuator executes ane sequence of noticeable and audible micro movements down / up, confirming entry into the PROGRAMMING MODE. Additionally in this mode every 1 sec. the diade 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.
- 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.

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.



11. CONTINUOUS MODE - ON / OFF SWITCH

- Press and hold the programming button on the MOBILUS C-MR receiver until the connected actuator executes one sequence of noticeable and audible micro movements down / up confirming the receiver's entry into the programming mode (every 1 sec the LED flashes).
- Press programming button in COSMO C-MR module three times, at short intervals. The module will confirm the change mode by multiple beep sound and switching relays. After changing the operating mode, the module will exit from the PRO-GRAMMING MODE. - Fig.11.1b.





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To deactivate CONTINUOUS MODE - repeat the procedure in steps 1 and 2.

IN THE CONTINUOUS MODE, the function of the button connected to terminal S1 / S2 changes. The button acts as a light switch - the switch under the terminal S1 activates the relay in the UP direction, when the button is off, the relay turns OFF. Switched under the S2 terminal works analogically - in the DOWM direction.



CONTINUED 11. CONTINUOUS MODE - ON / OFF SWITCH



CONTINUOUS OPERATIONAL MODE. Illumination connected to inputs 2 and 5 - control with DOWN command.

Fig. 11.3

12. BIDIRECTIONALITY

MOBILUS C-MR with two-way communication with the remote control allows control of the state of shutter position (eg. open, dosed, intermediate level, overload detection). 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.

13. BIDIRECTIONAL - INFORMATION ABOUT THE POSITION OF THE BLIND

MOBILUS C-MR transmits information about the end position and intermediate position blinds to remote controls. The mode is switched on automatically - there is no possibility of deactivation.

14. BI-DIRECTIONAL - OVERLOAD INFORMATION

MOBILUS C-MR 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.

CONTINUED 14. BI-DIRECTIONAL - OVERLOAD INFORMATION

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 diade is blinking.
- 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-MR module will perform 1 sequence of noticeable and audible micro moves down / up - Fig. 14c.



Fig. 14

15. SETTING OF THE SWITCHING TIME OF RELAYS

MOBILUS C-MR 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.

 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.

CONTINUED 15. SETTING OF THE SWITCHING TIME OF RELAYS

- 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.



16. PRODUCT DESCRIPTION



a) Programming button;

b) Connection terminals;

N - neutral;	† - UP;
N - neutral;	- DOWN;
L - phase ;	S1 - switch up;
L - phase;	S2 - switch down;

17. CONTROL REMOTES - "COSMO" SERIES



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





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