



User manual of COSMO |HB Lite controller.

 **READY**

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1. GENERAL INFORMATION

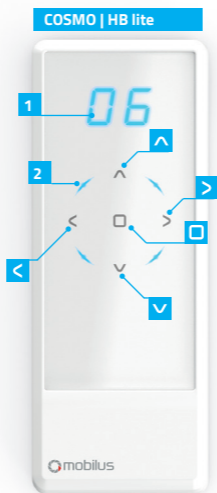
COSMO | HB lite is a 15-channel remote control, designed for remote control receivers brand **MOBILUS** (radio remote controls for roller shutters, awnings, blinds / control modules for motors without radio communication module / ON / OFF modules)






- Support 15 channels.
- Support 15 channel groups.
- One-way radio communication.

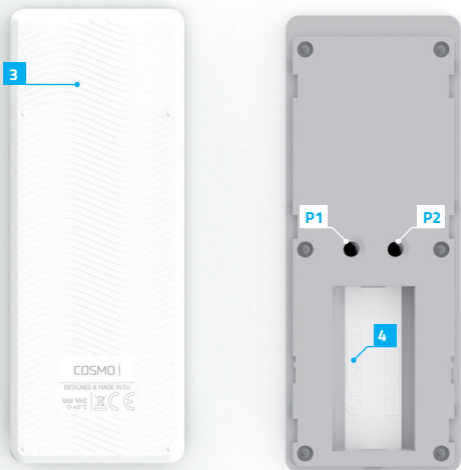
Remote **COSMO | HB Lite** - is a remote control with touch screen keyboard with additional beeps.

Please refer to the instruction manual that tells how to safely use the device. You are solely responsible for any damages resulting from the using the device in a manner inconsistent with its intended purpose. The manufacturer accepts no responsibility for damage or injury caused by misuse, improper handling and running.

2. DESCRIPTION OF THE REMOTE CONTROL



- | | | | |
|-----------|------------------------------|---|---|
| 1 | Display - channels / status. |  | Control button / navigation area LEFT . |
| 2 | Ring of 4 information LED's. |  | Control button / navigation area RIGHT . |
| 3 | Flap housing. |  | Control button / navigation area UP . |
| 4 | Battery compartment 2 x AAA. |  | Control button / navigation area DOWN . |
| P1 | Programming button 1. |  | Control button / navigation area STOP . |
| P2 | Programming button 2. | | |



3. CONTENTS OF THE PACKAGE

The packaging contains the following items:

- remote COSMO | HM or COSMO | HB
- 2 AAA batteries in the remote control protected against discharging with a seal,
- user manual,
- wall holder with magnet and fixing pins (2 pcs.).

4. TECHNICAL PARAMETERS

- Radio protocol: COSMO / COSMO | 2WAY READY (the remote control does not support two-way communication transmission - it does not receive feedback messages, it ensures sending commands to receivers)
- Frequency: 868 [MHz]
- Dynamic code
- FSK modulation
- The supply voltage 3,0 V DC .
- Power source: batteries 2 x AAA LR03.
- Working temperature [°C]: 0-40°C.
- Display: LED segment.
- Range in building: 40 [m]. The range of the radio signal depends on the type of construction, used materials and placement of units. The transmission of the radio signal in different conditions is as follows: brick wall 60-90%, reinforced concrete 2,060%, wooden structures with sheets of plasterboard 80-95%, glass 80-90%, metal walls 0-10%.
- Buzzer - tone generator – only the remote COSMO | HB
- Dimensions of the remote control (without the handle): 49 x 16 x 125 mm.

5. POWER SUPPLY

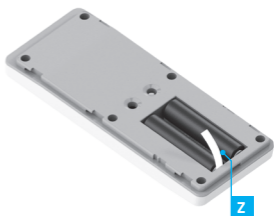
The device is powered by two batteries **AAA LR03**. In the case of low battery level the display shows information Lo. To change the battery slide the bottom flap down tight.



6. THE INITIAL COMMISSIONING

The device is factory protected against battery wearing. To the deprotection:

1. Open the battery cover.
2. Remove the seal Z, which protects the batteries from discharging (marked in white).



7. READING OF REMOTE INTO THE MOTOR'S MEMORY

WARNING! Do not program the remote control when the shutter is in the extreme position (top or bottom). Each program and changes of motor's operation directions are confirmed by two micro-movements of the driver.

Failure to comply with these rules may result in damage the blinds (inhaled by the housing).

1. Press the < / > to select the appropriate channel. Select the desired channel 1 to 15 with the buttons. - Fig. 7.1.

88 ... 85



Fig. 7.1

2. Enter MOBILUS motor, serie R in the PROGRAMMING MODE OF MASTER REMOTE:
 - press for 5 seconds PROGRAMMING BUTTON in the motor - Fig. 7.2a;
 - or double turn off and turn on the power supply of the motor - Fig. 7.2b;The confirmation of properly performed operation will be two micro-movements of the motor drive - Fig. 7.2c;

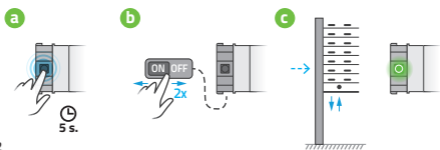


Fig. 7.2

WARNING! The first remote control readed into the receiver is a remote control **MASTER**. It allows you to operate motor and enter it in the **PROGRAM MODE** OF OTHER REMOTES.

3. On the remote control simultaneously press the **P1** - Fig. 7.3a. 4 LEDs start blinking - Fig. 7.3b. Hold the button until the motor driver will perform two micro-movements. The remote control has been readed into the motor.



Fig. 7.3a

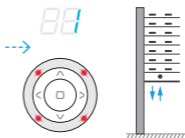


Fig. 7.3b

8. READING IN OTHER REMOTE

1. On the **MASTER** remote control press the **P1** - Fig. 8.1a. 4 LEDs start blinking - Fig. 8.1b. Hold the button until the motor driver will perform one micro-movement confirming the input of the motor in the **PROGRAM MODE**.



Fig. 8.1a

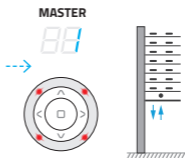


Fig. 8.1b



2. On the second remote control, you want to program, press the  and  - Fig. 8.2c. or for another **COSMO | HB lite** - press the programming button **P1**. Hold the button until the motor driver will perform on micro-movement - Fig. 8.2d. Another remote was loaded into the motor.



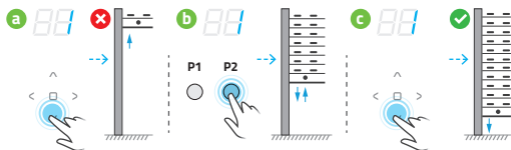
Fig. 8.2c



Fig. 8.2d

Within 20 sec. you can proceed to load the next remote. However, if no action of programming at this time doesn't happen, motor automatically returns to the **OPERATING MODE**. You can expedite return to the **OPERATING MODE** manually using the remote control **MASTER**. In this case, press the button **P1** and hold more than 5 seconds. In both cases, return to the **OPERATING MODE** will be confirmed by two micro-movements of the driver.

9. CHANGE OF MOTOR'S OPERATION DIRECTION



WARNING! You can change the direction of the work of motor for MOBILUS drives with electronic limit switches only before setting the upper and lower limit switches. You can change the direction of work for the MOBILUS motors with mechanical limit switches at any time.

After loading the remote control to the motor check that the buttons **UP** and **DOWN** correspond to lifting and lowering the blinds. If not, press buttons **P2** and hold them for about 4 seconds on the remote control any loaded to the motor. The confirmation of correctly performed operation are micro-movements of the driver.

10. TRANSMISSION PROTOCOL SWITCHING COSMO - COSMO | 2WAY

Remote control **COSMO | HB Lite** works in latest version of radio communication **COSMO | 2WAY ready**. If you need to change the mode to an older version (for example, if you purchase a new remote control for older **COSMO** radio tubular motors), follow these instructions:

1. Activate the remote control with the **<** / **>** buttons.
2. Press and hold the **P1 + P2** function buttons on the back of the controller for 20 seconds at the same time - Fig. 10.
3. When the LEDs at the bottom of the front panel light up, the corresponding communication standard is activated:

colour red - the latest radio communication **COSMO | 2WAY READY**

blue colour - previous communication **COSMO**



Fig. 10

> 20 s.

11. CHECK THE ACTIVE COMMUNICATION MODE

To quickly identify the active communication mode:

1. Activate the remote control with the **<** / **>** buttons.
2. Press and hold the **STOP** button for about 5 seconds - Fig. 11.
3. The LEDs in the lower part of the front panel shall light up indicating:

colour red - the latest radio communication **COSMO | 2WAY READY**

blue colour - previous communication **COSMO**



Fig. 11

> 5 s.

WARRANTY

The manufacturer guarantees correct device functioning. The manufacturer also agrees to repair or replace device damaged if the damage results from defects in materials and construction. The warranty is valid for 24 months from the date of purchase under the following conditions:

- Installation was made by a person authorized in accordance with the manufacturer's instructions.
- Seals haven't been breached and unauthorized design changes haven't been made.
- The device was operated as intended by the user manual.
- Damage is not a result of the improperly performed electrical installation or any atmospheric phenomena.
- The manufacturer is not responsible for damage resulting from misuse or mechanical damage.
- In case of failure the device should be provided for repair with proof of purchase.

Defects found during the warranty period will be removed free for no longer than 14 working days from the date of acceptance of device for repair. The manufacturer MOBILUS MOTOR Sp. z o.o. carries on warranty repairs. If you have any questions, please contact your dealer (please provide the following information: event description, description of the error, the conditions under which the accident occurred).

MAINTENANCE

1. For cleaning, use a soft cloth (eg. microfiber), moistened with water. Then wipe dry.
2. Do not use chemicals.
3. Avoid using in soiled and dusty environments.
4. Do not use the device at temperatures higher or lower than the declared range.
5. Do not open the device - otherwise the warranty shall be lost.
6. The device is sensitive to dropping, throwing.

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 purchased the product.