



COSYWORLD®

Cosy4More

EN

Operation manual

Operation manual

1	The products in this manual	3
2	Parts supplied (standard).....	4
3	Important information on use and safety	4
3.1	Symbols for guidance in this manual	4
3.2	Intended use or application	5
3.3	Safety information	6
3.4	General information	8
4	Getting started and operation.....	9
4.1	Controller and power adapter	9
4.2	Connecting the control box to the motor and the remote control holder	11
4.3	Getting started by connecting the control box to a power source	12
5	Possible operating modes	13
5.1	S-synchro mode (bi-directional with two SMART systems)	13
6	In the event of a fault or a power outage.....	16
6.1	Recoding the wireless remote control	16
6.2	Emergency lowering function in the remote control holder	17
6.3	Mechanical emergency lowering function	17
6.4	5-minute check.....	19
7	Technical data	23
8	Maintenance and cleaning.....	24
9	Disposal	24
10	EU declaration of conformity/CE Dol conformity.....	26
11	Miscellaneous.....	26

1 The products in this manual

The drive system technology from OCTO Actuators GmbH (Germany) is used to adjust furniture, sofas, mattresses, slatted frames or beds. These globally patented, high-quality slatted bases offer you maximum quality and a variety of advantages.

The following products are described in this operating manual:

Series: Cosy4More

Number of motors: 4M

Versions SMART MEMORY

Serial number and type (enter the data from the rating plate here):

Product description:

Serial number:

In this manual, we talk about 1M, 2M, 3M, 4M systems. The “M” stands for motor and the number for the number of motors. 4M means that it concerns a drive system with four motors. The warranty for our slatted bases is 10 years for the frame and 3 years for the drive.

For more information and details about these versions, visit our website, www.cosyworld.com, contact your dealer (seller) or our Service department on the phone number +49 (0)30 95 99 96 780.

We hope you enjoy the Cosy4More – “Made in Germany”.






2 Parts supplied (standard)

The standard parts supplied for the slatted bases are defined as follows:

Series	Controller	Power adapter	Comments
Cosy4More	“PriCon RF M4” wireless remote control	In the control box	Options and accessories can change the parts supplied.

3 Important information on use and safety

3.1 Symbols for guidance in this manual

Symbol	Signal word	Meaning
	Danger	The lightning symbol warns of danger from electric current.
	Warning	Warning of possible minor injuries to persons or possible property damage.
	Caution	Warning of possible defects or possible destruction of the device.
	Important note Important tip	An important note or tip regarding function is provided here.
	Disposal and consideration for our environment	This symbol indicates that batteries, motor parts, power adapters and other electronic devices may not be disposed of with domestic waste, but instead only via official collection facilities.

3.2 Intended use or application



The safety information must be observed when using the product. Improper use can lead to injuries and product damage, for which no liability is accepted by the manufacturer of the Cosy4More slatted base.

Information for devices with batteries

If the system will not be used for a prolonged period (e.g. holiday), it is recommended to remove the batteries from the remote control/controller and store them in an appropriate manner. The use of rechargeable batteries in the controllers is not recommended as the system does not have a charging function. It is, however, generally possible, but leads to reduced service life due to the lower voltage (1.2 volt rechargeable battery / 1.5 volt disposable battery).

The theoretical service life of the specified alkaline batteries, type P6 AAA UM3, is approx. 3 years, assuming 5 adjustments per day. However, to ensure long-term, safe functioning, it is recommended to replace the batteries after approx. 1 year as a precaution.



Batteries must be removed from the device before it is scrapped. The device must be disconnected from the mains before the battery/rechargeable battery is removed. Batteries/rechargeable batteries must be disposed of at appropriate public collection points/disposal systems.



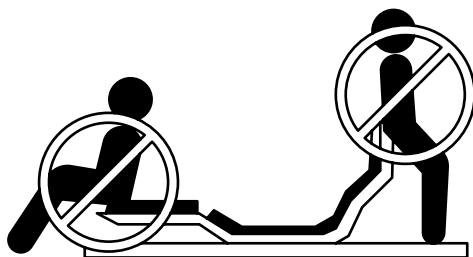
It is not necessary to re-establish contact between the wireless remote control and motor unit following a power outage, if the plug is disconnected from the mains or if the batteries in the handheld transmitter, receiver or controller are replaced. The connection that has already been saved is retained.

Only use original parts and original accessories.

Overloading of the Cosy4More slatted base



Overloading of the foot or head side should be avoided (see illustration) so that the gears of the drive mechanism are not damaged. The Cosy4More slatted base is not intended for continuous operation. The system must not be operated for longer than 2 minutes. After 2 minutes of continuous operation, a minimum break of 10 minutes must be observed.



The maximum load, distributed evenly over the lying surface*, must not exceed the following limit values!

Slatted base	Max*
Cosy4More (with memory)	200 kg

3.3 Safety information



Before connecting the controller to the mains, please compare the mains voltage with the input voltage stated on the rating plate of the controller. The rating plate is located on the underside of the controller.



Mains voltage and input voltage on the rating plate must be identical. If this is not the case, the controller must not be connected to the mains. In this case, please contact the dealer.



To prevent injuries or damage, the technology may only be operated if there are no people or animals underneath the slatted base (bed) and objects between the raised (or flat) drive unit and the frame.



Please ensure that no limbs or objects are in the immediate vicinity of the levers (danger of crushing, danger of being pulled in).



The entire system must be protected from moisture and may not be exposed to direct sunlight for a prolonged period.

Please ensure that the mains plug is always freely accessible so that it can be disconnected from the mains quickly in the event of danger. The mains connection cable must also be exposed. Please ensure that no objects are placed on the cable and that the cable is not trapped.



The mains connection cable must be checked for visible damage once a year.



Due to the risk of an electric shock, a damaged mains connection cable may only be used by the manufacturer, its customer service department or a similarly qualified person.



Please note that the wireless connection can only be used if there is visual contact with the bed (e.g. not from the neighbouring room).



This device can be used by children over the age of eight (8) years and by people with limited physical, sensory or mental capabilities or a lack of experience and/or knowledge if they are supervised or have been taught how to use the device safely and have understood the resulting dangers. Children may not play with the device.



People with cardiac insufficiency or a pacemaker should have their use explicitly authorised by a medical specialist. It must be noted that magnets (such as those that can be used to attach the handheld transmitter) can also impair use.



If you are not using the Cosy4More slatted base for a prolonged period, remove the remote control/handheld transmitter to prevent it from being used by (for example) children in a way that is not in accordance with the specifications. You should also carry out a functional test for your safety before using the device again. All adjustment areas must be completely raised and lowered once.



The system may only be opened or repaired by authorised professionals! Unauthorised repairs and modifications exclude the manufacturer's liability for any resulting damage! Failure to comply with these specifications may endanger persons.



During transport or maintenance work, etc., please ensure that the cables and/or sheaths are re-installed/re-inserted correctly.



The system may only be used with the original components intended and supplied for use. This applies to the mechanical components as well as to the controllers and power adapters.

3.4 General information



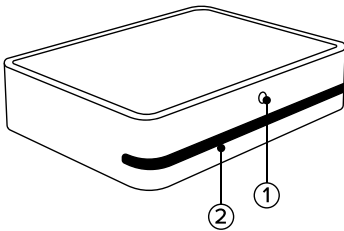
We reserve the right to make technical changes in the interests of continuous product improvement at any time without prior notice!

4 Getting started and operation

4.1 Controller and power adapter

The following illustration symbolically explains the function of the control box.

Control box 4M



1 Light sensor

The light sensor switches on the LED strip (for around 30 seconds). The handheld transmitter must not be in the remote control holder. (Mains isolation must be inactive) This function is useful for activating floor lighting when getting out of bed at night.

2 LED light strip

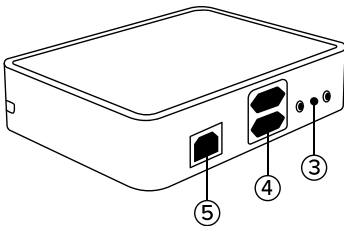
The LED strip lights up for around 30 seconds and switches off automatically.

3 Cable connection and battery compartment

There are two batteries here, which activate the controller. (Mains isolation) This is also where you connect the cable for the remote control holder and the control cable for the drive system.



A beep will sound when the batteries need to be replaced. Then replace the batteries in the battery compartment of the main control box.



4 230 V plug sockets

Two further 230 V consumers (lights) can be connected. If mains isolation is activated, the connected devices are also disconnected from the mains.

5 230 V power cable connection

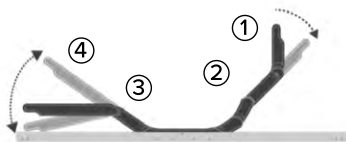
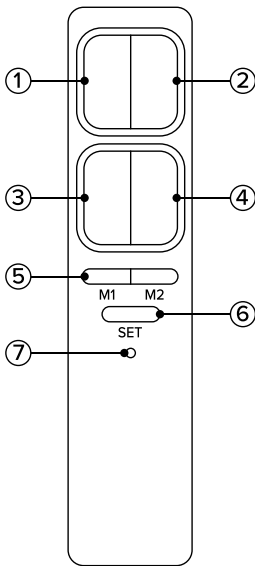
The power cable is connected to the control box here. The control box has an integrated power adapter inside the box.



Please refer to the next chapter to connect/start up the control box.

The following illustration symbolically explains the function of the buttons and remote control holder.

Button functions



Button 1

This adjusts the neck zone

Button 2

This adjusts the back zone

Button 3

This adjusts the thigh area

Button 4

This adjusts the lower-leg area

Combination / simultaneous pressing of both buttons

Buttons 1 and 2

Adjust the back section and neck area

Buttons 3 and 4

Adjust the thigh and lower-leg areas

5 Memory buttons on the wireless handheld transmitter (M1/M2)

The buttons 5 offer two memory slots (Memory 1 and 2)

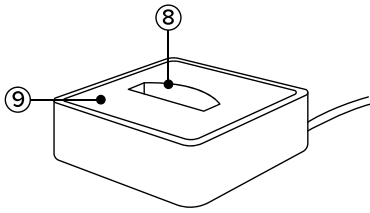
6 Set button

Press button 6 to initiate the save process. (Saving the memory position) It also switches S-synchro mode on or off. (Chapter 5.1)

7 Status LED

green = individual control LED

red = S-synchro mode LED (chapter 5.1)



8 Holder for the wireless handheld transmitter/mains isolation

When the wireless handheld transmitter is placed in the holder, mains isolation is activated.

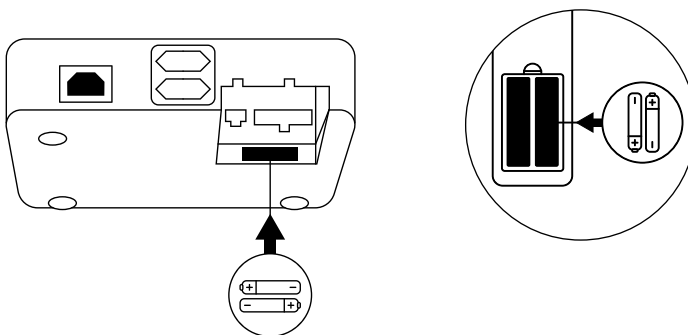
9 Reset button

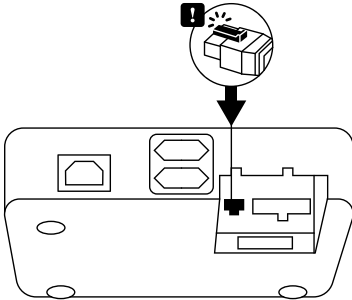
By pressing this button (panel), you can reset your drive system to the default position without using the wireless handheld transmitter.

4.2 Connecting the control box to the motor and the remote control holder

The following illustration symbolically explains the connection of the controller to the peripherals.

Open the cable connection and battery compartment by sliding the panel outward. Insert batteries. Also insert the batteries into the wireless handheld transmitter. (Pay attention to polarity; type AAA).

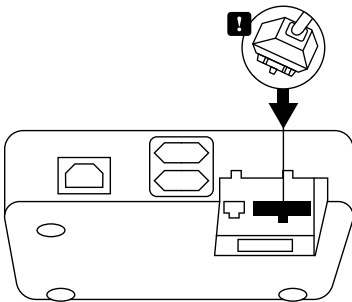




Insert the cable of the remote control holder into the smaller of the two multi-pin sockets (6-pin socket).



Ensure that the clip on the plug is aligned correctly with the socket. This locks into place.



Insert the cable of the slatted frame drive into the larger of the two multi-pin sockets (18-pin socket)

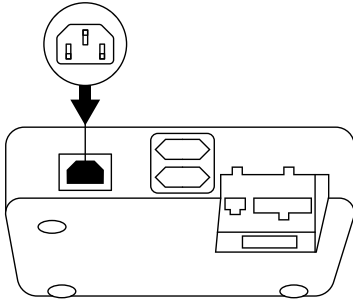


The plug can then only be removed when the plug clip “4.3.1” is pressed at the same time that the plug is removed from the socket.

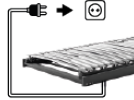
4.3 Getting started by connecting the control box to a power source

Connect the control box to a suitable power source (plug socket). Make sure that the control box is not damaged by other objects when moving the bed. When using distributor strips, make sure that they are designed for this type of operation.

Connecting to the mains



Before connecting the controller to the mains, please compare the mains voltage with the input voltage stated on the rating plate of the controller. The rating plate is located on the underside of the controller.



5 Possible operating modes

5.1 S-synchro mode (bi-directional with two SMART systems)

In the event that you want to connect two Cosy4More devices fitted with SMART motors in one bed in order to move these at the same time, the following option is available to you.

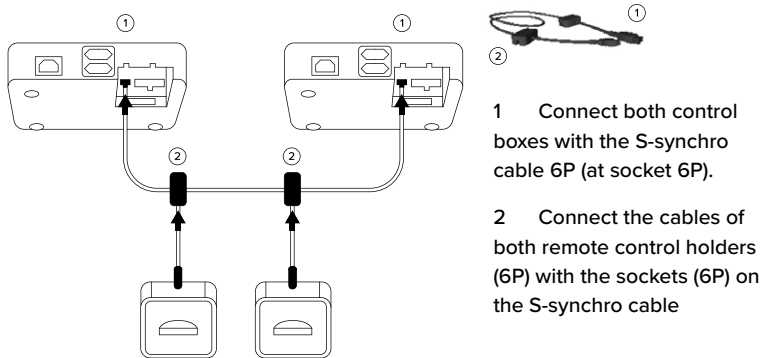
Both SMART memory drives are connected with a bi-directional circuit that, by querying the position, almost always moves the connected systems (both bed systems) up or down in the same way without any offset.

Cosy4More SMART motor

PriCon RF wireless remote control (controller A and B)

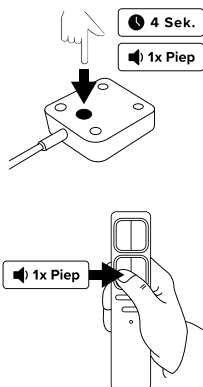
Step 1 – Cables

Ensure that both beds are connected to the power supply. Ensure that the cable connection of the remote control holder is disconnected from the control box. (Proceed in reverse order / chapter 4.2) Exclusively use the S-synchro cable intended for this **S-synchro cable 6P Art. 6355**



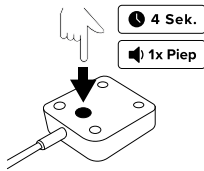
Step 2 – Pairing process

Preparation



The two wireless remote controls must now be paired. This means that the wireless remote controls must recognise that there is an S-synchro cable connection.

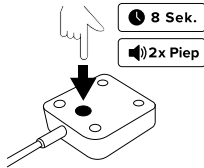
Controller (remote control holder A and wireless handheld transmitter A) Pick up the remote control holder. Turn this over. Press the button for 4 seconds until you hear a beep. (1x beep)
Press any button on the wireless handheld transmitter. Another beep sounds. (1x beep)



Controller (remote control holder B and wireless handheld transmitter B)

Also carry out this procedure with the other controller.

This process is repeated in the next step, but you cross controllers A and B.

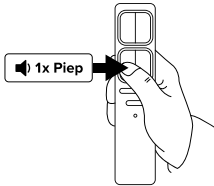


Controller (remote control holder A and wireless handheld transmitter B)

Pick up remote control holder A. Turn this over. Press the button for 4 seconds until you hear a beep. (1x beep)

Then press the button again, but for 8 seconds until you hear two beeps. (2x beep)

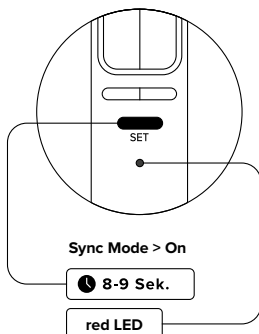
Press any button on wireless handheld transmitter B. Another beep sounds. (1x beep)



Controller (remote control holder B and wireless handheld transmitter A) Also carry out this procedure with the other controller.

Both controllers are now connected with the S-synchro cable.

Preparation

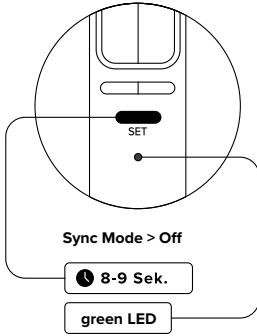


Step 3 – Switching S-synchro mode on and off

Once the controllers are connected with the S-synchro cable and are successfully paired, S-synchro mode can be switched on and off.



Switch S-synchro mode on by pressing and holding the Set button for approx. 9 seconds. The LED lights up red. S-synchro mode is then activated on both wireless remote controls.



Switch back to individual mode by pressing and holding the Set button for approx. 9 seconds. The LED lights up green. S-synchro mode is then deactivated on both wireless remote controls.



You have a total of 4 memory slots available to you in S-synchro mode.

6 In the event of a fault or a power outage

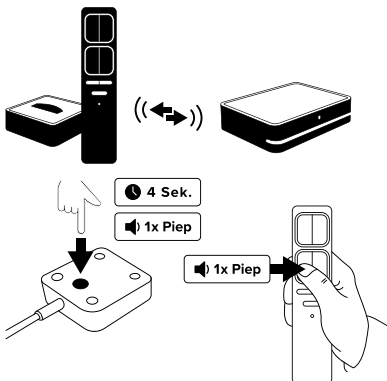
If you have questions or problems, please contact the dealer (seller) or our Service Hotline: **Tel. +49 (0)30 95 99 96 780.**

6.1 Recoding the wireless remote control

On delivery, the wireless transmitter (control box) and the wireless receiver (remote control/remote control holder) are coded to one frequency.

In the event of a fault, the wireless transmitter can be recoded to the wireless receiver.

Reconnecting the control box, remote control holder and remote control (recoding the “PriCon RF remote control”)



Ensure that the power supply is connected! (Power adapter properly connected to the socket; chapter 4.2; 4.3)

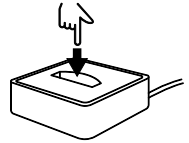
Pick up the remote control holder. Turn this over. Press the button for 4 seconds until you hear a beep.

Press any button on the remote control. Another beep sounds. (1x beep)

You can now reach the wireless receiver with remote control A on frequency A and adjust the bed. Perform a test. If malfunctions occur, repeat the procedure.

6.2 Emergency lowering function in the remote control holder

In the event that the wireless transmitter is faulty or cannot be found, you can reset the bed to the default position by pressing the button (panel) on the remote control holder (keep pressed).



6.3 Mechanical emergency lowering function

What to do in a power outage?



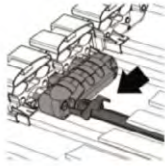
In the event of a power outage, the back and foot areas can be lowered manually. Mechanical emergency lowering is a mechanism for all conceivable cases and is an option that is always available for lowering the drive system (back and foot area). This can be used independently of further power sources, such as batteries, and also in the event of a mechanical fault due to overloading.



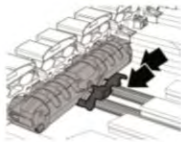
Important! There must be no one on the bed. Remove the mattress. If possible, carry out this procedure with the help of a second person.

Depending on the drive system, proceed as follows:

Motor neck (1)
and foot (4)



Motor back (2)
and knee (3)



Remove the slats that lie over the motor by pulling them out of the slat caps.

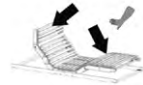
Proceed zone by zone. Pull the red lever for the zone that you want to lower by pulling slightly towards the centre of the bed. A slight disengagement of the coupling can be felt when pulling, only then is lowering possible without difficulty.

Keep the lever (slightly) pulled and press the corresponding zone down until it is horizontal. Ensure that the coupling is always disengaged during the lowering procedure.



Repeat this procedure in every further motorised zone.

Manual lowering can only be carried out with a correspondingly large amount of force.



The system can be operated normally again after restarting. The gears automatically engage.

6.4 5-minute check

The Cosy4More slatted base is designed so that individual components can be replaced without the bed or the entire drive system having to be replaced. The following 5-minute check is a questionnaire that quickly provides a result regarding the cause of a fault and recommendations on what to do.

Step 1

Please first check whether ...	Indications for sources of faults
the device is connected to the mains	Plug socket or distributor box
all cables are inserted correctly	Power cable to the motor, remote control cable and wireless receiver cable to the motor
the batteries have been inserted correctly and are full	Wireless handheld transmitter, control box
the cables or plugs have visible damage	In this case, switch off the power
the bed system now functions correctly	If not, continue to the next step

Step 2

No.	5 min. Check – remote control/wireless handheld transmitter Push the function buttons and note the result.	yes	no
1	Head and back section adjustment button 1 “Up” and button 2 “Down”		
1A	Do you hear a motor sound?		
1B	Does the zone move up and down correctly?		

2	Knee and foot section adjustment button 3 “Up” and button 4 “Down”		
2A	Do you hear a motor sound?		
2B	Does the zone move up and down correctly?		
3	All zones (reset) button combination 1+2 or 3+4 “Up” <> “Down”		
3A	Do you hear a motor sound?		
3B	Does the zone move up and down correctly?		



If you have two bed systems, check whether the other system works correctly. If yes, you can use the faulty component in this by swapping components (replacement procedure) and quickly determine whether this malfunction is also evident there.

Combinations for simple faults of the operating elements

No.	S1	S1	S1	S1	S1	S1	S2	Recommended action
1A	yes	no	yes	no	yes	no	no	S1 , Presumably a fault with the remote
1B	yes	no	yes	no	yes	no	no	control or the wireless set (receiver and transmitter). If you have a second bed, swap over the units (ruling-out procedure). If the fault is also present there, the operating unit is faulty.
2A	no	yes	yes	no	no	yes	no	S2 , Check the power source, the batteries and cable (as described above). If you have a second bed, swap over the power adapter (ruling-out procedure). If the fault is also present there, the power adapter is faulty.
2B	no	yes	yes	no	no	yes	no	
3A	yes	yes	no	yes	no	no	no	
3B	yes	yes	no	yes	no	no	no	

Combinations for mechanical faults

No.	S3	S3	S3	S3	S3	S3	Recommended action
1A	yes	yes	yes	yes	no	no	S3, Presumably a fault with the mechanism or the motor. If possible, take pictures and record videos that clarify the scenario. Contact your dealer (seller) or our Service department for further steps.
1B	no	yes	yes	no	no	no	
2A	yes	yes	yes	no	yes	no	
2B	yes	no	yes	no	no	no	Loud noises/twisting: Presumably a fault with the mechanism. If possible, take pictures and record videos that clarify the scenario. Contact your dealer (seller) or our Service department for further steps.
3A	yes	yes	yes	no	no	yes	
3B	yes	yes	no	no	no	no	

Further steps

S1/S2 Under warranty, contact your dealer (seller) or our Service department (chapter 6). Replacement deliveries for remote controls, wireless sets, power adapters, hooks are free of charge during the warranty. You will receive a return note for returning the faulty part. We also ask that you get in contact outside of the warranty. Parts deliveries and services are then subject to a charge and must be paid for in advance.

S3 Mechanical faults can generally have many causes. These are usually attributable to mistakes during assembly, during delivery or overloading during use. Our systems are designed in such a way that it is not necessary to replace the bed (the entire system with the bed). Repairs can be carried out on site by a trained service technician as part of the seller's simple rectification options. Contact your dealer (seller) or our Service department in any case. Damage under warranty and within the scope of rectification (without third-party fault) will be repaired free of charge. There is a charge for repairs for damage outside of the warranty and in the event of culpable third-party influence.



Before getting in contact with your dealer (seller) or our Service department, we ask that you carry out steps 1 and 2 carefully and record the results in the tables provided. Videos, images and your personal observations are important information that are very helpful during the analysis. Also keep your purchase receipt to hand.



Complaints are always unpleasant and we always want to satisfy you as a customer. However, it is possible that a complaint may arise. Each of us is familiar with this from our everyday lives and from our own experience. We therefore ask for your understanding and thank you in advance for your co-operation, which will lead to a quick solution.



If you have questions or problems, please contact the dealer (seller) or our Service Hotline: **Tel. +49 (0) 30 95 99 96 780.**
info@cosyworld.com

7 Technical data

We reserve the right to make technical changes that improve the system.

COSY4MORE

Manufactured in accordance with VDE, Protection Class II, tested in accordance with LGA /TÜV

Mains connection	100–240V AC 50–60Hz 2.5A
Sockets on the IQ Power	2x max. 2.5A
Protection class of the entire system	IP 20, Class II
Power-on time / intermittent operation	2 min. / 10 min.
Number of motors (system-dependent)	2, 3, 4
Design of the motors	24 V DC
Maximum load (distributed evenly across the entire lying surface)	200 kg
Motor power	9,500 N per motor
Recommended room temperature	+10° to +40°C
Relative humidity	30%–75%
Power adapter type	SMPS
Eco-Design EC 1275/2008 Standby > 0.30 watt	Control box

Our warranty from the time of delivery is 10 years for the frame and 3 years for the drive.

8 Maintenance and cleaning

Attention: Disconnect the plug from the mains beforehand.



If necessary, the entire Cosy4More slatted base can be cleaned with a dry cloth. The entire drive system is maintenance-free.

9 Disposal



The symbol on the product or its packaging indicates that the product must not be disposed of with normal domestic waste.



Users are obliged to take waste devices to a collection facility for waste electrical and electronic equipment. The separate collection and proper disposal of your waste equipment helps to preserve natural resources and guarantees recycling that protects human health and the environment. Information about where you can find collection points for your waste equipment can be obtained from your municipality. Information obligation in accordance with Section 18 of the Batteries Act (BattG).

Make sure that you take your waste batteries/rechargeable batteries to a municipal collection centre or local retailer, as required by law. Disposal via ordinary domestic waste is prohibited and infringes upon the Batteries Act.

Depositing the batteries is free of charge for you.

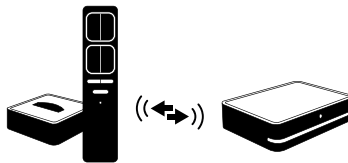
Our systems are designed so that the components that need to be disposed of are easy to separate. The EAR regulation is taken into account and applied by the seller (end consumer's dealer).

How to dismantle the motor

Preparation You do not need any special tools for dismantling. Use the screwdrivers, tool spanners and tools available to you based on the screw design.

Implementation

- 1) Disconnect the plug from the mains
- 2) Remove the control box (cable or wireless)
- 3) Disconnect the motor cables from the control cable on the drive system (6P plug)
- 4) Remove the motor screws and the motor from the unit



Motors



10 EU declaration of conformity/CE DoI conformity

EU declaration of conformity is issued by the company Cosyworld GmbH within the framework of the Machinery Directive to the manufacturer and trading partner in accordance with the following directives:

- EU Directive 1999/5/EC “R&TTE Directive”
- EU Directive 2004/108/EC “Electromagnetic Compatibility”

The declaration of conformity is deposited with the manufacturer.
Document owner: Cosyworld GmbH



You can find the EU Declaration of Conformity on the following pages.

11 Miscellaneous

For more information, please visit our online shop

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as defined by the Machinery Directive 2006/42/EC, Annex II, 1. A
Original

The sole responsibility for issuing this declaration of conformity lies with the manufacturer

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Person authorised to compile the technical file, who must be established in the Community

Marc Kordmann
OCTO Actuators GmbH
de Werth Straße 1
DE - 97947 Grünsfeld

Description and identification of the machinery

Product	COSYWORLD Cosy4More
Commercial name	Cosy4More
Model	4M
Function	The product function focuses on being purchased as an external device and placed in existing beds to provide a simple motorised adjustment of the mattress.

It is expressly declared that the machinery fulfils all the relevant provisions of the following EC Directives and Regulations:

2006/42/EC	Directive 2006/42/EC of The European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast) Published in L 157/24 on 09.06.2006
2014/30/EU	Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast) Published in 2014/L 96/79 on 29.03.2014
2014/35/EU	Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits Published in 2014/L 96/357 on 29.03.2014
2011/65/EU	Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment Published in 2011/L 174/88 on 01.07.2011
2015/863	Commission Delegated Directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances
2012/19/EU	Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE)
1907/2006	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Published in L 396/1 on 30.12.2006
2014/53/EU	Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC Text with EEA relevance

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Original

Reference to the applied harmonised standards in accordance with Article 7(2):

EN 60335-1:2012/AC:2014	Household and similar electrical appliances - Safety - Part 1: General requirements IEC 60335-1:2010 (revised)
EN 60335-1:2012/A11:2014	Household and similar electrical appliances - Safety - Part 1: General requirements IEC 60335-1:2010 (revised)
EN 60335-1:2012/A13:2017	Household and similar electrical appliances - Safety - Part 1: General requirements
EN 60335-1:2012/A1:2019	Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, revised) (amendment)
EN 60335-1:2012/A14:2019	Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, revised) (amendment)
EN 60335-1:2012/A2:2019	Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, revised) (amendment)
EN 60335-1:2012	Household and similar electrical appliances - Safety - Part 1: General requirements
EN 55014-1:2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-2/A1:2001-12	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN 55014-2:1997/A2:2008	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN 55014-2:1997-02	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase) IEC 61000-3-2:2014
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection IEC 61000-3-3:2013
EN 61310-2:2008-01	Safety of machinery - Indication, marking and actuation - Part 2: Requirements for marking
EN 55014-1:2017/A11:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
ETSI EN 301 489-1 V2.2.3 (2019-11)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 489-3 V2.1.1 (2019-03)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-17 V3.2.4 (2020-09)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 300 440 V2.2.1 (2018-07)	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum
ETSI EN 300 328 V2.2.2 (2019-07)	Wideband transmission systems - Data transmission equipment operating in the 2.4 GHz band - Harmonised Standard for access to radio spectrum
IEC 62479:2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN IEC 61547:2023	Equipment for general lighting purposes - EMC immunity requirements (IEC 61547:2020)
EN IEC 55015:2019 + A11:2020	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2018 + ISH1:2019)
EN IEC 62368-1:2020 + A11:2020	Audio/video, information and communication technology equipment

as defined by the Machinery Directive 2006/42/EC, Annex II, 1. A
Original

Reference to the other technical standards and specifications applied:

EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2015)
EN IEC 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2018)
EN 61000-3-3:2013/A1:2019	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013 + A1:2017)
EN 349:1993+A1:2008	Safety of machinery. Minimum gaps to avoid crushing of parts of the human body
IEC/IEEE 82079-1:2019	Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements

Berlin, 23/03/2023

Place, date



Signature
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