



USER MANUAL HAND CONTROL RHC10 and RHC15





About REAC

REAC is passionate about helping people in their daily lives, and by providing a wide range of advanced power solutions suitable for many different applications, we hope to make people's lives a little bit easier. Our aim is to offer our clients an excellent service, backed up by experience and know-how in the application of advanced motion systems.

REAC's power solutions contain compact and strong electrical actuators, lift and tilt systems, control units and hand controls. We know that our customers have different needs and therefore our products are designed to be customized according to their application's specific requirements.

We are confident to say that we can solve a wide range of motion problems, so please challenge us!

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1 Introduction

1.1 About this manual

The aim with this user manual is to describe the hand controls RHC10 and RCH15 with focus on:

- Working principle descriptions
- Maintenance
- Troubleshooting

Next to this manual the following documentation is available:

- RHC10 data sheet
- RHC15 data sheet

1.2 Symbols

The following symbols will be used in this document:



Failure to comply with these instructions may result in accidents involving personal injury.



Failing to follow these instructions can result in the product being damaged or destroyed.



Useful tips, recommendations and information for efficient, trouble-free use.

2 Technical data

2.1 System and compatibility

RHC10 and RHC15 are two variants of hand controls, which can be used together with the following REAC control units:

- RCB10
- RCB11
- RCB12
- RCB15
- RCB20
- RCB25

2.2 Basic characteristics

	RHC10	RHC15
No of actuator channels	Up to 4	Up to 3
IP-class	IPX4	IPX4
Weight	0.2 kg	0.2 kg
Color	Black (RAL9005) White (RAL9016)	Black (RAL9005) White (RAL9016)
Expected service life	8 years ¹	8 years ¹

¹ Provided that service schedule described in the user manuals are followed

2.3 Environmental conditions

	RHC10	RHC15
Operating		
Ambient temperature	-25 °C to +50 °C	-25 °C to +50 °C
Relative humidity	15% to 90%	15% to 90%
Atmospheric pressure	700 to 1060 hPa	700 to 1060 hPa
Storage		
Ambient temperature	-40 °C to +70 °C	-40 °C to +70 °C
Relative humidity	15% to 90%	15% to 90%
Atmospheric pressure	700 to 1060 hPa	700 to 1060 hPa



Using the the products outside their specified limits may lead to subsequent malfunction or personal injury

2.4 Functional features

	RHC10	RHC15
Battery level indicator LEDs	✓	✓
Low battery level warning LED	✓	✓
Battery charging indicator	✓	✓
Service indication LED		✓
Alert LED	✓	✓
Two speed operation		✓
Key lock	✓	



Both models can be customized to fit certain application's unique needs.

2.5 Operating instructions

The normal way to interface with REAC control units is via the hand control. REAC has two base models:

- RHC10, general purpose hand control.
- RHC15, intended for patient lift systems.

Both models can be customized to fit certain application's unique needs, but as standard the RHC10² and RCB15 have the following features and design:

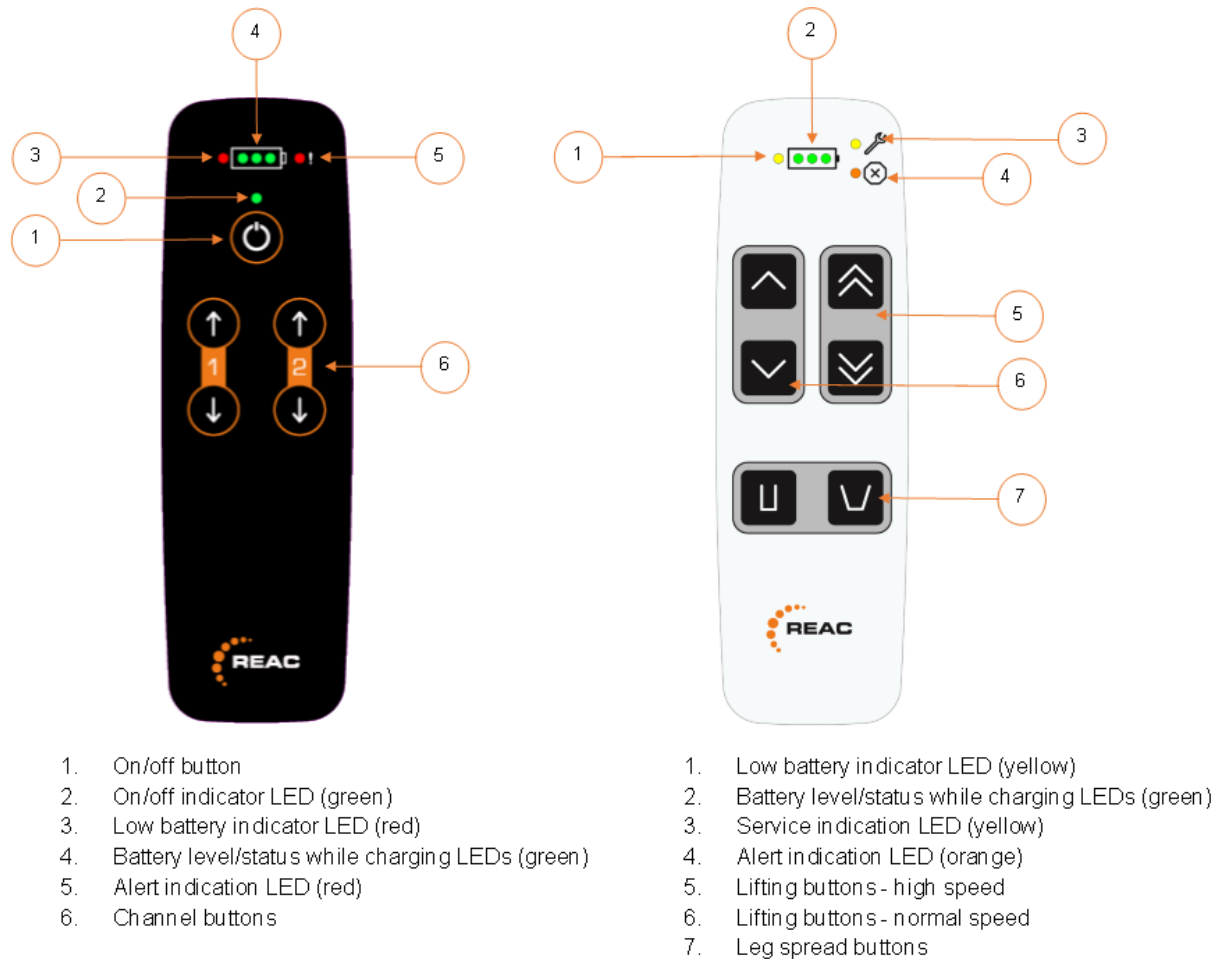


Figure 1. RHC10 2-channel version and RHC15 - control description

2.6 Key lock function

RHC10 has a Key lock function. To lock a channel press both buttons for that channel at the same time for 3 seconds until the alert indicator LED is lit. Channel is locked.

If turning off the system with the on/off button and then start again, the red LED will light for a short while to indicate that a key lock is active.

To unlock the same procedure is used, i.e. press both channel buttons at the same time for 3 seconds until the alert indicator LED is switched off.

² RCH10 is available in 1,2,3 and 4-channel version.

3 Maintenance

3.1 Service intervals

To ensure safe and proper operation, regular service is required. The service interval is dependent of the needs of the final application in which the hand control is used.

Between these service points regular maintenance and minor inspection must also be performed. Below follows a suggested maintenance schedule:

	Initially	Before each use	Regularly	At planned service
Cables Ensure cable that connects hand control and control unit is firmly affixed	✓		✓	✓
Cables The cable must be checked for mechanical damage.	✓			✓
Cover The plastic housing must be checked for mechanical damage (cracks).	✓			✓
Overlay The overlays must be checked for mechanical damage and that they are firmly affixed.	✓			✓

3.2 Cleaning and disinfection

Product	Cleaning instructions
RHC10	Clean with a damp cloth or with a brush and water.
RHC15	Clean with a damp cloth or with a brush and water.



The systems must not be washed directly with a high-pressure cleaner
Cleaning with a steam cleaner is not permitted.



For disinfection, it is recommended to use soap or equal and clean with a damp cloth.

Cleaners and disinfectants must not:

- be highly alkaline or acidic
- contain caustic agents
- change the structure of the surface of the plastic or the adhesives

3.3 Waste disposal



All REAC products are marked with this symbol, which according to *Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/CE* means that products marked with this sign must be taken to a proper disposal site and cannot be disposed in in normal household waste.

RHC10 and RHC15 consist of several parts with different material, which means that they cannot be disposed as one single item. It is recommended (at disposal) to disassemble and divide the product as much as possible in to feasible waste groups to be able to recycle the product in the most environmental friendly way.

The following waste groups have been identified for the hand controls:

	Cables	Electronics	Metal	Plastic
RHC10	• Connection cable	• PCBA	• N/A	• Cover
RHC15	• Connection cable	• PCBA	• N/A	• Cover

Some of these main groups can be divided into sub-groups, for example metal can be divided into iron, stainless steel and aluminum and alloy steel. Plastic can e.g. be divided into ABS, PA, PE and PP. All our plastic units are provided with an interior code for plastic types and fibre contents.

3.4 Warranty

The warranty covers manufacturing defects in the product, starting from the date of manufacture. Standard warranty is 12 months. The warranty is limited to the value of the product.

REACs warranty is only valid if the product has been used and maintained correctly and has not been manipulated with or exposed to violent treatment.

3.5 Repairs

To avoid the risk of malfunction, all repairs must only be carried out by authorized REAC workshops or by a REAC appointed representative. Products under warranty must also be returned to an authorized REAC workshop.



If any of the REAC products are opened, there will be a risk of subsequent malfunction.




3.6 Troubleshooting

Problem	Probable cause	Description	Solution
Hand control appears "dead"	Poor contact with control unit	Nothing happens when pressing a button, no LEDs are lit.	Make sure hand control is properly plugged in to control unit.
	Low battery level <i>(in control system)</i>	Nothing happens when pressing a button, no LEDs are lit.	Charge batteries <i>(in control system)</i>
	Hand control broken		Service needed

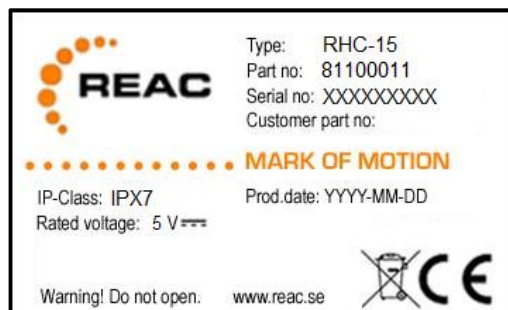


4 Labeling









The following symbols are used on the label of REAC Control System products.

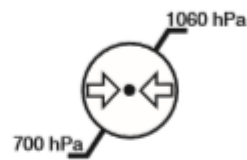
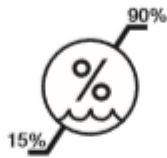
IPXX	Ingress of particles (first character) and water (second character) as per EN60529.
	DC Voltage
	WEEE compliant
	CE-label attached based on Low Voltage Directive and EMC Directive.

Label example:



The following symbols are used on the packaging of REAC Control System products.

	<p>Manufacturer/manufacturing date.</p>
	<p>Do not use if package is damaged.</p>
	<p>Fragile, handle with care</p>
	<p>Keep dry</p>
	<p>Temperature limits</p>
	<p>Relative humidity limits</p>
	<p>Atmospheric pressure limits</p>
	<p>Consult instructions for use (Can be ordered via REAC homepage)</p>



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REAC is continuously developing our products and can make changes without prior notice. Therefore we can't guarantee that the information stated on our webpage or in our written material always is up to date, nor can we take responsibility for any misinterpretation of our written context. Technical specification might change due to load and external circumstances. REAC products shall be tested in its intended application before use.

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