

INSTRUCTION MANUAL

EN

# KINTEC

HAND CONTROL



**KINTEC-SOLUTION**  
technic to relax



# INSPECTION PROCESS

| Version | Date        | Change            |
|---------|-------------|-------------------|
| 0.1     | 27. 3. 2012 | first publication |

## CONTRACT PROVISION



KINTEC-Solution is not responsible for damages caused by:

- not respecting the manual
- changes on the product not permitted by KINTEC-Solution
- spare parts not produced and not permitted by KINTEC-Solution

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# 1. GENERAL INFORMATION

## 1.1 DETAILS TO THE DESCRIPTION OF FUNCTIONS

The following description of functions is a manual specific for KINTEC hand control.



### **ATTENTION!**

It is necessary that you follow the instructions in this manual. You will prevent mistakes when assembling and connecting the hand control which can cause:

- injuries and incidents
- damage of the drive system and the final product

**The producer reserves the right to make technical changes or modifications of the product without a previous warning, because product changes relate to the producer's effort of a continuous development and improvement of the product**

## 1.2 MANUAL

Explanation of warning signs:



### **ATTENTION!**

**Pay attention to dangerous situations.**

**Possible consequences: light or insignificant injuries.**



### **WARNING!**

**Warning against dangerous situations.**

**Possible consequences: death or serious injuries.**



### **ATTENTION!**

**Pay attention to dangerous situations.**

**Possible consequences: possible damage of the product or another product in its surrounding.**



### **ATTENTION VOLTAGE!**

**Pay attention to high voltage.**

## 2. SAFETY INSTRUCTION

The KINTEC hand control is intended for corresponding drive systems (linear motors) including storage elements such as accumulators, and cannot be used with other systems.



### **ATTENTION!**

**The hand control is intended only for the above described usage, otherwise it can lead to accidents or device damage. It also lead to the immediate loss of warranty.**

### **INAPPROPRIATE USAGE**

Please follow the instructions of an inappropriate device usage:



### **WARNING!**

**The KINTEC hand control cannot be used in the following areas:**

- **in a proximity of high-frequency surgical devices and defibrillators**
- **around inflammable or explosive gases and vapours (e.g. anaesthetic)**
- **in a damp environment or outdoor**



### **ATTENTION!**

**It is prohibited to use the KINTEC hand control:**

- **by children**
- **by ill and elder people without a supervision**
- **near little children**
- **when not respecting the manual**



### **ATTENTION!**

**Only spare parts produced and permitted by MODICO and KINTEC are allowed, as only they guarantee sufficient safety.**

### 3. DESCRIPTION OF THE KINTEC HAND CONTROL

The KINTEC hand control is a device for manipulation of the armchair functions. The setting of backrest and footrest is controlled by buttons on the hand control, which is connected to a corresponding linear drive. It can consist of one motor (leg motor) or two motors (back and leg motor). The KINTEC hand control comes with a charging socket. If an accumulator is integrated into the system as an element of powering the motors, it is possible to plug it in. Alternatively, it is possible to connect the hand control to an external accumulator. In this case, the charging socket is not necessary.

#### 3.1. THE KINTEC HAND CONTROL



2-motor version (back and leg motor)

### 3.2 FUNCTIONS OVERVIEW

#### Components

1. Hand control with 5 buttons
2. Socket for charging cable
3. Protection of the cable output
4. Spiral cable
5. Y-cable with an adaptor

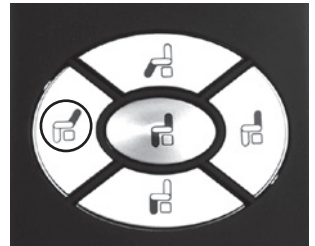


**It is possible to control the backrest and the footrest by buttons on the hand control.**

#### Change of the backrest position

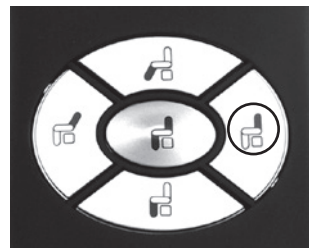
- Button “lower the backrest”

When you press the button “lower the backrest” you can change the back position to a more comfortable angle.



- Button “straighten the backrest”

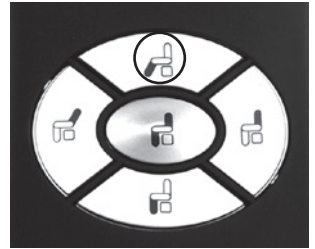
After having lowered the backrest, you can straighten it to a more comfortable position or you can put it back to the default setting by pressing the “straighten the backrest” button.



### Change of the footrest position

- Button “raise the footrest”

You can adjust the footrest to a more comfortable position, when you press the button “raise the footrest”.



- Button “lower the footrest”

After having raised the footrest, you can adjust it to a more comfortable position or you can put it back to the default setting by pressing the “lower the footrest” button.



### RESET button

- Button “RESET”

By pressing “RESET”, you put the backrest and footrest back to the default setting.



### NOTE:

**When you press two buttons at the same time, both motors will move simultaneously. When you press all buttons, the system will stop and no motor will move.**

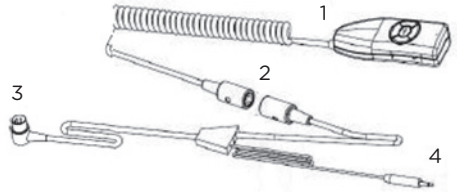
### 3.3 TECHNICAL PARAMETERS











|                        |              |
|------------------------|--------------|
| Power supply           | 24 - 29 V/DC |
| Protection             | IP 20        |
| Category of protection | III          |

### 3.4 CONNECTING THE KINTEC HAND CONTROL TO A CHARGING DEVICE

For the hand control to function, a linear drive or a motor has to be connected to the charging socket.

#### Connection overview of the KINTEC hand control



| No., description, symbol   | Picture   |   |
|--|---|---|
| <p><b>1.</b><br/>3.5 mm<br/>jack connector (charging<br/>socket of the hand control)</p>                    |  <p>3.5 mm jack plug</p> |  <p>charging socket<br/>of the hand control</p> |
| <p><b>2.</b><br/>DIN 8<br/>- connector to a Y-cable</p>    |  <p>plug + socket</p>   |   |
| <p><b>3.</b><br/>DIN 5<br/>- connector to motors</p>    |  <p>plug</p>           |   |
| <p><b>4.</b><br/>3.5 - jack connector<br/>(connection of the charging<br/>socket to the accumulator)</p>  |  <p>plug</p>           |  <p>socket on the accumulator</p>             |



### 3.5 FURTHER SIGNIFICANT INSTRUCTIONS TO THE HAND CONTROL

- For the hand control to function, it is necessary that all connectors are correctly connected.
- Power consumption should not exceed the maximal limit of the system (the resulting increase in temperature can destroy the insides of the hand control).
- The hand control case cannot be opened by unauthorized people.
- Disproportionate bending of cable connections can hamper smooth running.



#### **ATTENTION VOLTAGE!**

**Unauthorized opening of the hand control case can lead to health damage of the person and his/her surrounding.**

**The hand control and/or the whole system can be damaged by connecting electric contacts in the case incorrectly.**

## 4. REMOVAL OF FAULTS

- Note: In case of a fault that is not displayed in the following chart, users should turn to their supplier.

| <b>Problem</b>   | <b>Possible causes</b>  | <b>Solution</b>  |
|--|---|--|
| The hand control or the drive system does not function | The plugs on the drives or the hand control are not connected correctly   | Connect it to the network (connect the network connection to the plug)                         |
|  | The hand control cable is not connected   | Connect the hand control cable   |
|  | The hand control or the drive system may be faulty  | Turn to your supplier/seller   |
| The drives do not work                                 | Safety lock may be switched on or be faulty   | Turn to your supplier/seller   |
|  | No voltage in the network   | Make a network connection (connect the network connection to a plug)                           |
|  | Motors are blocked (e.g. there is an object stuck in the mechanics or a carpet prevents the footrest from rising) | Remove the obstacle.<br>If the electronic components are damaged turn to your supplier/seller. |
|  | The power supply (the network and/or the hand control) seem not to be connected.                                  | Check the power supply and restore the electric connection if needed.                          |

## 5. MAINTENANCE

| Method of control  | Explanation  | Period   |
|--|--|--|
| Control of electric function and safety                                    | The control is carried out by a qualified electrician                                    | The period depends on the risk assessment of the final product |
| Regular visual control of any damage of the hand control case              | Control of cracks and broken parts on the case which disturb the IP protection           | At least every 6 months  |
| Regular visual control of any damage of connectors and electric connection | Check power line connectors and electric connection                                      | At least every 6 months  |
| Regular visual control of any damage of power line                         | Check connection cables - damages, cut-offs etc., especially after any mechanical stress | At least every 6 months  |
| Regular control of the hand control functions                              | Check the hand control by bringing the armchair functions into their marginal positions  | At least every 6 months  |

### CARE AND CLEANING

The KINTEC hand control is developed for simple cleaning, especially because of its smooth surface.



#### ATTENTION!

**Please note that the hand control cannot be cleaned in a dishwasher or by a high-pressured cleaner. To prevent damage, avoid intrusion of liquids into the case.**

1. Before cleaning, remove the hand control cable from the power supply.
2. Clean the hand control by a damp cloth.
3. Pay attention to the connections while cleaning to prevent their damage.



#### ATTENTION!

**For cleaning, don't use any dissolvent such as petrol, alcohol or other similar detergents. Don't leave the charging socket dirty.**

## 6. DISPOSAL

The KINTEC hand control contains electronic components, cables, metals, plastics, etc. These components can be disposed of in accordance with valid regulations of environmental protection.



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