

# Control Box

## MD6C-M

MD6C-M is a control box that uses Moteck's proprietary Bus communication protocol. Under this communication protocol framework, new firmware programs can be customized according to the function definitions required by customers. MD6C-M can control up to 4 actuators. It can be fixed on the bed frame or attached to specific Moteck actuators. With IPX5 waterproof protection, it can be used in medical, home care and other applications.



### Features and Options

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**Main applications:** Home care, medical

**Standard features:**

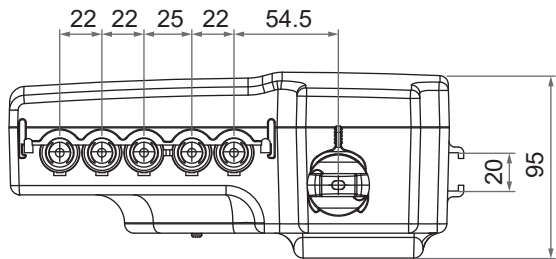
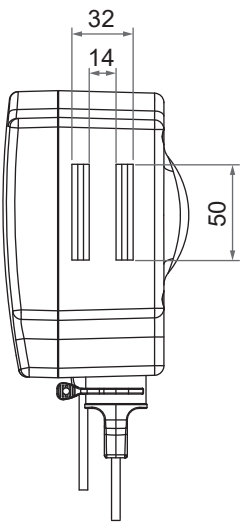
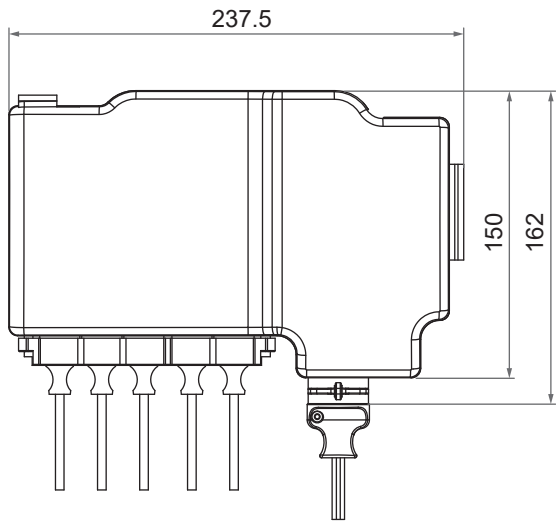
- Input: 100~240V AC, 50/60Hz (SMPS)
- Output: 24V DC
- Power supply: 29V/2A SMPS
- Max. current: 5A per channel
- Max. number of actuators: 4 channels
- Max. number of controls: 1 channel
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Positioning memory function with dual hall sensors
- Customized software available
- IP Protection level: IPX5
- Protection class: Class II
- Color: Light gray RAL 7035
- Power cord length: 3000mm
- Certified: CE Marking, EN 60601-1-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

**Options:**

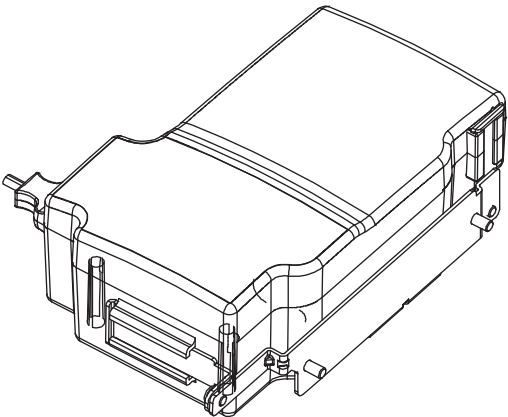
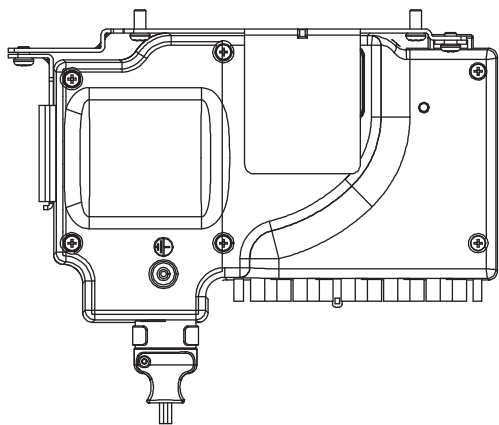
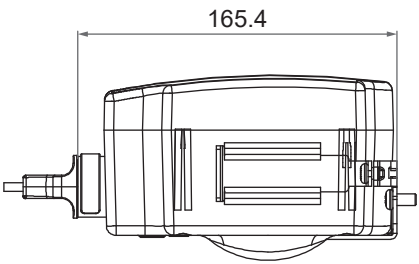
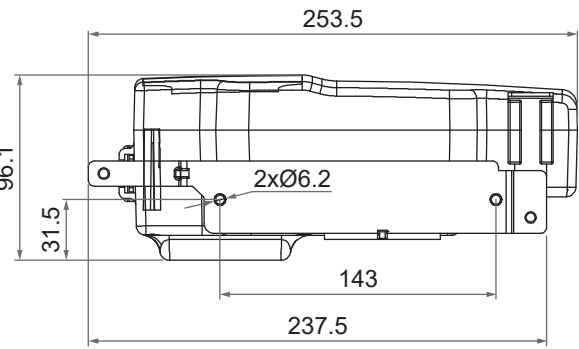
- Charging function, for dedicated external backup battery
- Bracket: Fix MD6C-M to the bed frame (Refer to p.6)
- C Clip: To hook on MD60 or MD66 actuator (Refer to p.6)

Dimensions

Unit: mm



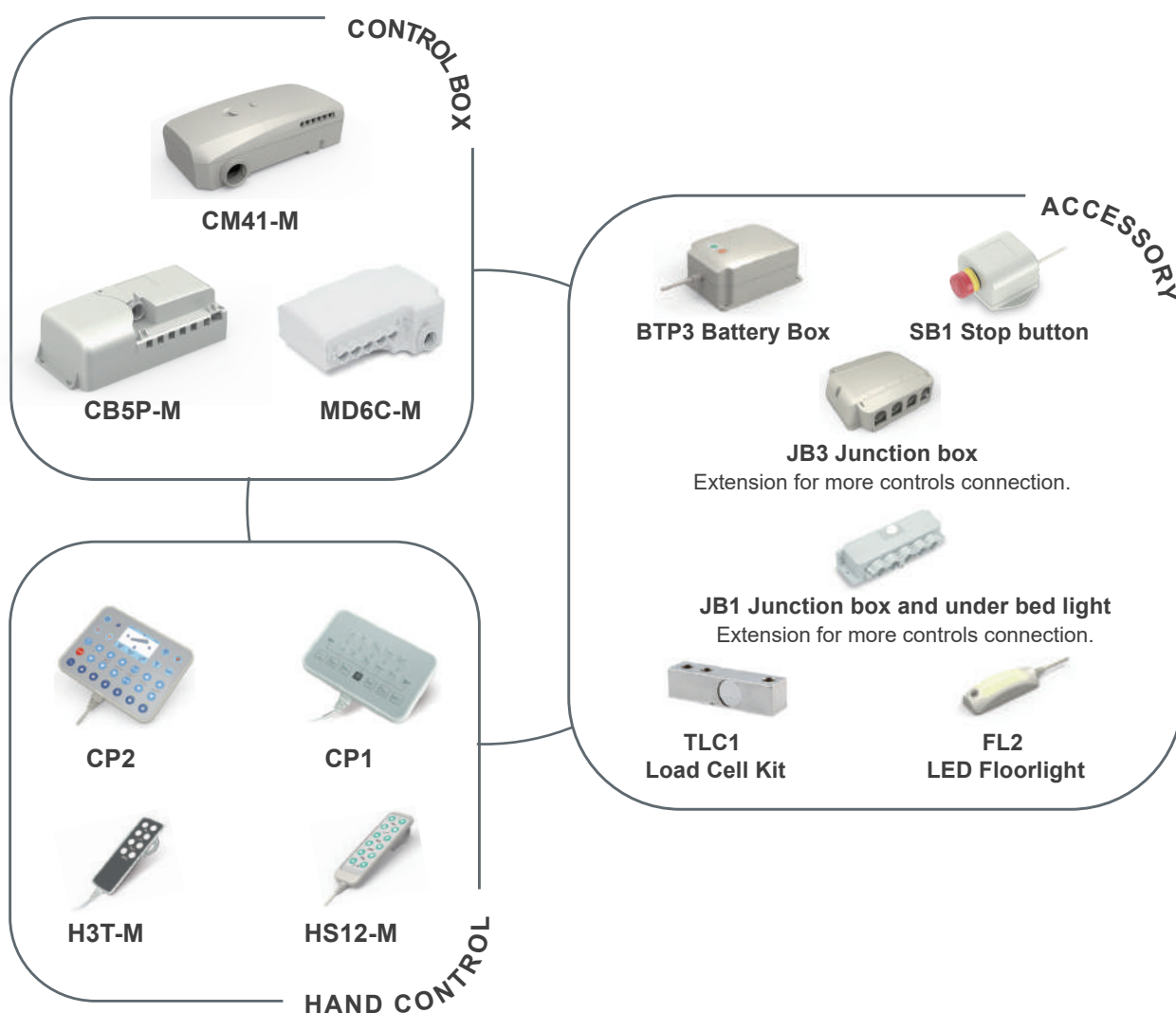
With fixing bracket



## Compatibility

Product	Model	Compatible requirement
<b>Actuator</b>	MD60, MD66, MD21, MD80, MD82	<ul style="list-style-type: none"> <li>- With dual hall sensors</li> <li>- With Moteck V-type or H-type 6-pin DIN plug</li> </ul>
<b>Hand control</b>	H3T-M, CP1, CP2, HS12-M	<ul style="list-style-type: none"> <li>- With Moteck V-type or H-type 7-pin DIN plug</li> </ul>
<b>Accessory</b>	JB1, JB3, SB1	
<b>Battery Box</b>	BTP2 (dedicated version)	<ul style="list-style-type: none"> <li>- DC jack input/output</li> </ul>

## Moteck Bus family

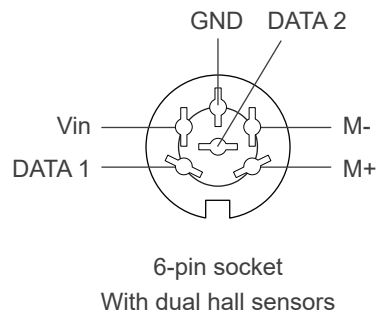


### Remarks:

Please refer to data sheet of each product for details.

## Socket

### Actuator socket (for V-type or H-type DIN plug)

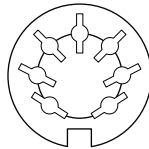


V-type

#### Remarks:

Connect Pin (M+) to "+" & Pin (M-) to "-" of DC power, the actuator will extend.

### Control socket (for V-type or H-type 7-pin DIN plug)

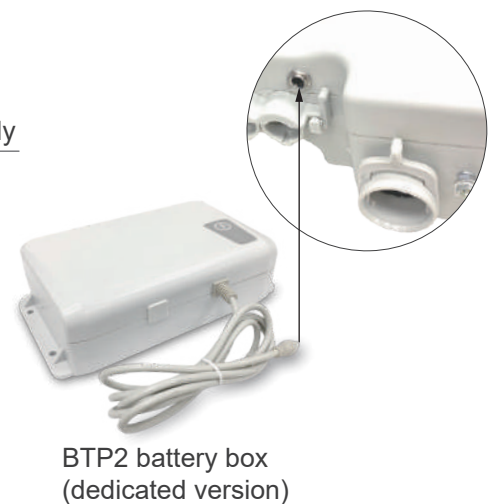
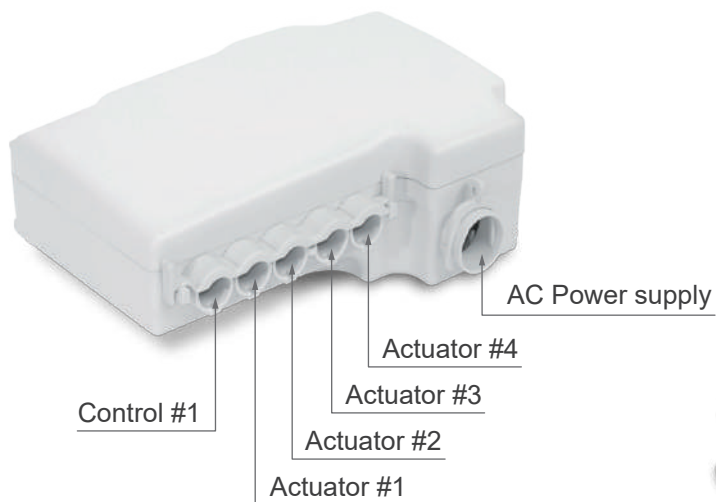


7-pin socket



H-type

## I/O Introduction



BTP2 battery box  
(dedicated version)

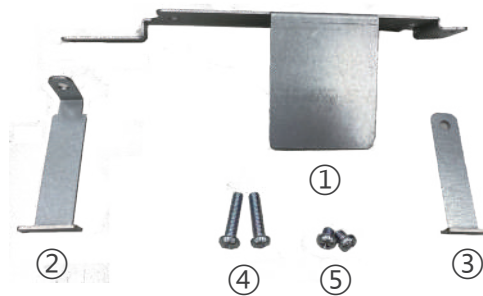
## Ordering Key

<b>MD6C-M-</b>		<b>24</b>	<b>1</b>	<b>4</b>	<b>H</b>	<b>C</b>	<b>0</b>	<b>3</b>
<b>Output</b>	24: 24V DC							
<b>Number of control</b>	1: 1 channel							
<b>Number of actuator</b>	2: 2 channels 3: 3 channels 4: 4 channels							
<b>Positioning memory function</b>	H: Positioning memory function with dual hall sensors							
<b>Charger function</b>	0: None C: With charging circuit for external battery box.							
<b>Accessory</b>	0: None 1: Fixed on MD60 actuator with C Clip 2: Fixed on MD66 actuator with C Clip 3: With fixing bracket							
<b>AC Power cord length</b>	0: None 3: 3000mm straight							

## Installation

### - Bracket

- The contents are as shown below.



### • Installation Steps

1. Use screws ④ to lock the bracket parts ① to the bed frame.



2. Put bracket parts ② and ③ in the notch of the control box.



3. Use screws to lock the control box to the bracket parts of Step 1, and the installation is completed as shown in the figure below.



### - C Clip

- Put the C Clip onto the actuator, then fix the control box on it, then the control box can be attached to the actuator.

