

# Control Box

## CM23

CM23 is a control box specially designed for medical assistive applications such as lifts, bathing chairs, electric wheelchairs, etc.

CM23 can control two actuators to move synchronously. Its thin and exquisite appearance is easy to install and fix, and it can be operated by a wired hand control or support RF wireless control as option.



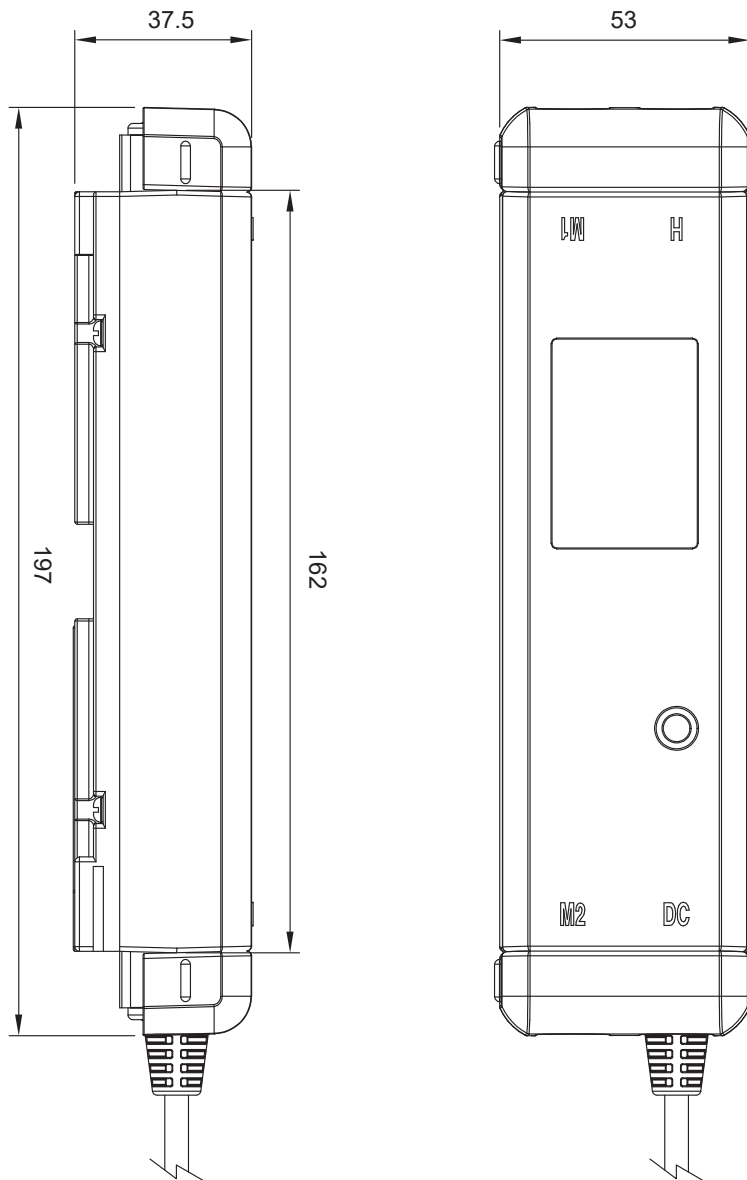
### Features and Options

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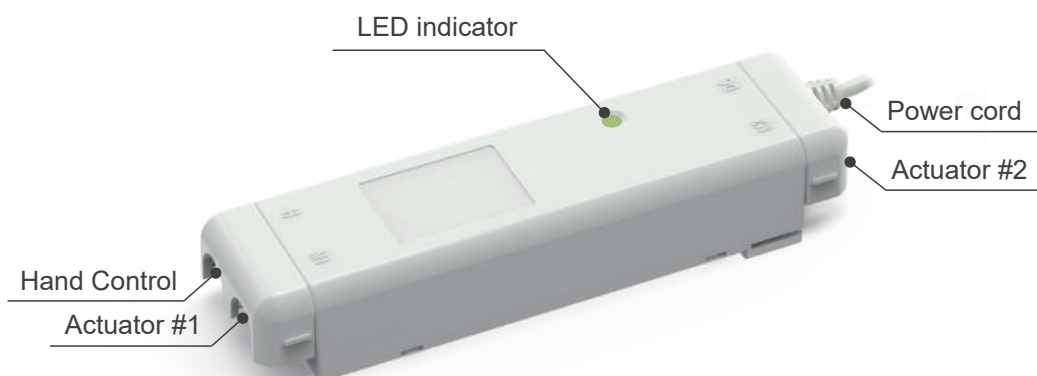
- Main applications: Medical Care
- Max. input voltage: 29V DC
- Max. output voltage: same as max. input voltage
- Output rated current: 4.0A (1 channel), 6.0A (2 channels total)
- Max. number of actuators: 2
- Number of controls: 1
- Duty cycle: 10%, maximum 2 minutes continuous use.
- Over-current protection function
- LED Power indicator (green light)
- IP Protection level: IPX6
- Color: Light gray RAL 7035
- Power cord length: 300mm straight
- Certified: CE Marking, EN 60601-1-2, BS EN 60601-1-2, IEC 60601-1-2
- The default standard mounting plate can provide flexible installation methods
- Optional Built-in RF receiver

# Dimensions

Unit: mm



# I/O Introduction

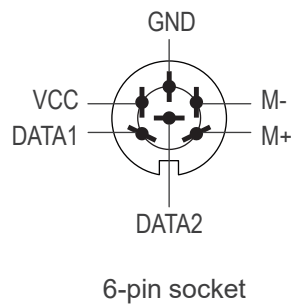


## Compatibility

Product	Model	Compatible requirement
<b>Actuator</b>	MD21, MK32, LD12	- With Moteck H-type 6-pin DIN plug
<b>Hand control</b>	HT, HTF, HS12L	- Moteck P2 control category - With Moteck H-type 8-pin DIN plug
<b>RF wireless remote</b>	TX02, TXZ, TXH, TXT	- With Moteck's proprietary RF 2.4G protocol
<b>Power supply</b>	DPA-58-2920-C8 (formerly TSW1), DPB-58-2920-C8 (formerly TSW2), DPA-87-2930-C8	- With Moteck S-type 2-pin DIN 41529 plug
<b>Accessory</b>	BTP2-L battery box	- With DJ7021 waterproof plug

## Connectors

### - Actuator socket for Moteck H-type DIN plug



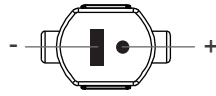
H-type DIN plug

**Note:** Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the motor.  
Switch the polarity of DC input to retract it.

### - Hand control socket for Moteck H-type DIN plug



- DC power plug (not water resistant)



DIN 41529 2-pin male plug



S-type female connector

- DC power plug (water resistant)



DJ7021 2-pin male plug



DJ7021 female connector

## Ordering Key

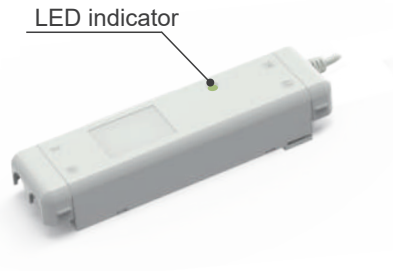
**CM23 - S - 2 R - 0 0 3**

<b>Function version</b>	S: Synchronization version
<b>Number of actuator</b>	2: 2 actuators
<b>RF remote</b>	N: None R: supports RF remote function (Built-in RF receiver)
<b>Reserved</b>	0
<b>Cable</b>	0: With Moteck S-type DIN 41529 plug D: With DJ7021 waterproof plug
<b>Power cable length</b>	3: 300mm straight

# Installation Guide

## - RF Pairing

1. When using the CM23 for the first time, it needs to be paired with the wireless remote control, and then it can be operated at any time.
2. Press the pairing button of the remote control within 5 seconds after the control box is powered on, the LED indicator of the control box flashes green during pairing, and the LED indicator light is solid green when pairing is successful. And the remote control can be operated normally, which means that the pairing is successful.

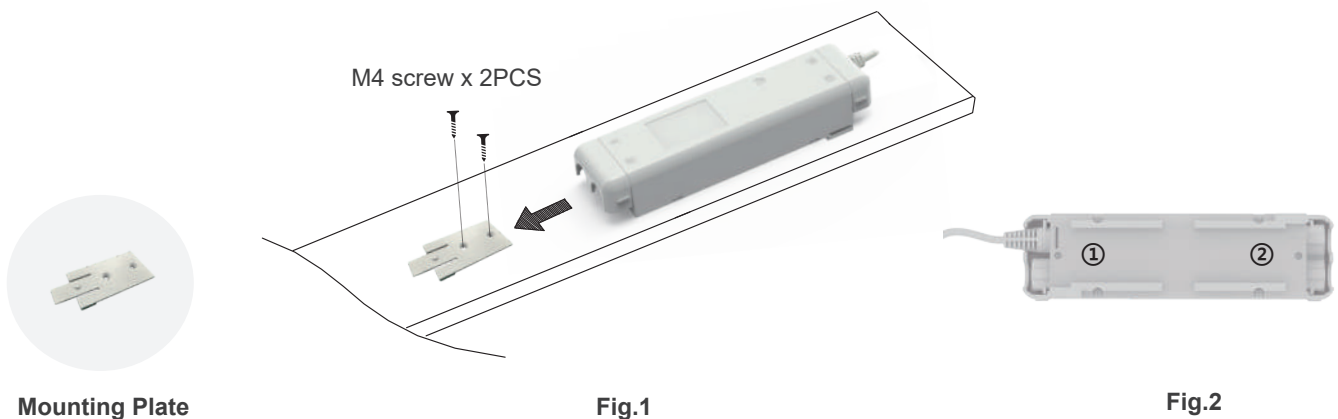


### Note:

- Only applicable to optional models with built-in RF receiver
- No need to re-pair after power off and on again
- Only one remote control can be paired. Pairing the second remote will overwrite the first one.

## - Mounting

1. According to the usage, first fix the mounting plate to the proper position with M4 screws. **(Fig.1)**
2. Align the mounting plate with notch (①~②) on the back of the control box and put it in. **(Fig.1, 2)**



Mounting Plate

Fig.1

Fig.2

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