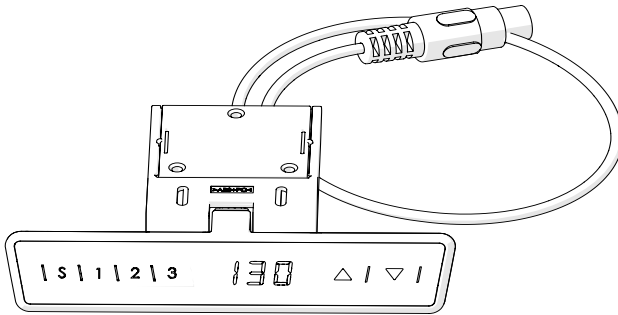


# ELEVAR



## REMOTE CONTROL

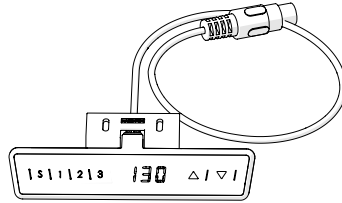
SIX BUTTON PROGRAMMABLE REMOTE CONTROL



## Operating Instructions

Please read below instructions carefully before operating the system.

- |   |   |
|---|---|
|  Setting Button    |  Memory Position 1 |
|  Memory Position 2 |  Memory Position 3 |
|  Up                |  Down              |



### 1 Zero Setting:

When you use the height adjustable frame for the first time or when you wish to use a configured control unit on another identical electric height adjustable frame, you have to reset the lowest desktop position to the minimum height .

- Press ▼ button and keep pressing it until the desktop has reached the lowest position (programmed desktop position).
- Press ▼ button again and keep pressing it. After about 5 seconds, the desktop will slowly move further down until it reaches the absolutely lowest desktop position possible.
- Release ▼ button. The electric height adjustable frame can now be used.



Zero setting position is approximate 5mm lower than original starting height position.

### 2 General Operation:

This function enables you to adjust the frame upwards or downwards.

Press ▲ or ▼ button and keep pressing the button until the required frame height is reached.



The frame will continue moving upwards or downwards until you release the button or the maximum / minimum height is reached.

### 3 Container and Shelf Stop position:

These 2 features can be used to limit the movement area of the desktop (e.g. if a container is placed underneath the desktop). A container stop position can be defined in the lower half of the movement area, a shelf stop position in the upper half. If a container stop position is set, this position will be the lower limit position. If a shelf stop position is set, this position will be the new upper limit position.

To store a container stop / shelf stop position, go on as shown below:

- Move the frame to the position where the container stop / shelf stop position shall be stored. Do so by pressing the ▼ or ▲ until you reach the desired position.
- Press both up and down button (▲ & ▼) for 10 seconds. The control unit will click twice when the container stop / shelf stop position is stored.



A container stop position can only be stored in the lower half of the movement area and a shelf stop in the upper half. These steps have to be done for a container stop and a shelf stop position separately!

## Operating Instructions

To deactivate the container stop/ shelf stop position go on as shown below:

- Move the frame to any position in the lower half to deactivate the container stop. / Move the frame to any position in the upper half to deactivate the shelf stop. Do so by pressing the ▼ or ▲ button until you reach the desired position.
- Press both up and down button (▲ & ▼) for 10 seconds. The control unit will click once when the container stop / shelf stop position is deactivated.



**These steps have to be done for a container stop and a shelf stop position separately!**

### 4 Change the displayed desktop position (cm or inch):

With this function it is possible to change the displayed desktop position from centimeters to inches or the other way around. The desktop position itself is not affected by this function.

- Press the memory position 1, 2 and the ▲ button at the same time. Keep the button combination pressed for about 5 seconds. Then release the buttons. The display will show S and a number, e.g. S 5.
- Press the ▲ button until the display reads S 5 if the display hasn't shown S 5.
- Press the Setting button S. If the display was set to centimeters, it will be changed to inches now. If the display was set to inches, it will be changed to centimeters now.



**The menu timeout is 5 seconds, this means that the menu will close automatically without storing new settings if the user does not press a key for 5 seconds.**

### 5 Saving a desktop position:

This function allows you to save a defined desktop height. One desktop height can be saved per memory position key. To save a position, proceed as follows:

- Adjust the desktop to the position you want to save. The display will show the desktop height (e.g. 73cm).
- Press the Setting button S. The display will read S --.
- Press the required memory position button (e.g. 2). The display will read S 2.
- The set desktop position will now be saved to the selected memory position button. You will hear an audible double click and after about 2 seconds the saved desktop position will be displayed.



**If you are switching on the control unit for the first time, all the saved positions are set to the lowest desktop height (minimum desktop position).**

### 6 Adjusting the desktop to a saved position:

You can use this function to adjust the desktop to a saved height. To change to a saved position, proceed as follows:

- Press the required memory position button (e.g. 2) and hold it down. The desktop will move until it reaches the saved position. If you release the key before the saved position is reached, the desktop will stop and the saved desktop position will not be reached.
- The desktop has reached the saved position. Now release the memory position button. The display will read the current (saved) desktop position.

## Operating Instructions

### 7 Reset control unit to factory settings:

With this function you can reset the control unit to its factory settings.

- Press the keys memory position 1, 2 and the ▲ button at the same time. Keep the button combination pressed for about 5 seconds. Then release the buttons. The display will show S and a number, e.g. S 5.
- Press the ▲ button until the display reads S 0 if the display hasn't shown S 0.
- Press the Setting button S. The control unit will be reset to its factory settings. The control unit is now in the same state as it is when the commissioning is done.



After starting the menu, the display will read S and any number, for instance S 5. The number depends on the parameters of the control unit.



If one or more motors are changed in a system, the control box must be reset to factory settings and a manual reset has to be performed!

### 8 Changing the desktop height displayed:

This function enables you to change the height shown on the display, but not the actual position of the desktop.

- Press the memory button. The display will read S -.
- Press ▼ button for approximate 5 seconds, the display will start flashing.
- Adjust the height displayed by pressing up or down button (▼ or ▲).
- Press the memory button. The height display is now set to the new desktop position entered.



This procedure does not alter the actual position of the desktop. It only changes the height displayed.



This function is only available for remote control with integrated display.

## Troubleshooting

In this section you will find detailed information on the following topics:

- Possible faults and remedies
- Error messages on the remote control display
- Click codes

### 6.1 Possible faults and remedies

#### Legs not working

| Possible Cause                 | Remedy   |
|--------------------------------|--|
| ☰ Power Cable is not connected | ☰ Plug the Power Cable into the Control Unit           |
| ☰ Legs are not connected       | ☰ Plug the Motor Cables into the Control Unit and Legs |
| ☰ Poor plug contact            | ☰ Check all connections                                |
| ☰ Control Unit is defective    | ☰ Replace the Control Unit                             |
| ☰ Remote Control is defective  | ☰ Replace the Remote Control                           |

#### Legs only operating in one direction

| Possible Cause   | Remedy  |
|--|---|
| ☰ Mains power breakdown or main power is plugged off during movement | ☰ Zero setting (if movement is only possible downwards) |
| ☰ Control Unit is defective  | ☰ Replace Control Unit                                  |
| ☰ Remote Control is defective  | ☰ Replace the Remote Control                            |
| ☰ Leg is defective   | ☰ Replace the Leg                                       |

## Troubleshooting

### Control Unit or Remote Control is not working

| Possible Cause                    | Remedy                                       |
|-----------------------------------|--|
| ☰ Power Cable is not connected    | ☰ Plug the power cable into the control unit |
| ☰ Remote Control is not connected | ☰ Plug in the remote control                 |
| ☰ Control Unit is defective       | ☰ Replace the Control Unit                   |
| ☰ Power Cable is defective        | ☰ Replace the Power Cable                    |
| ☰ Remote Control is defective     | ☰ Replace the remote control                 |
| ☰ Poor plug contact               | ☰ Check all connections                      |
| ☰ Exposed to liquids              | ☰ Replace the remote control                 |

### 6.2 Error messages (Only on external remote with display)

The display reads **HOT**.

| Possible Cause  | Remedy   |
|---|--|
| ☰ The SMART-SPFE control unit is fitted with overheating protection. Overheating has caused it to stop the control unit | ☰ Wait until the control unit has cooled down and <b>HOT</b> is no longer displayed. The SMART-SPFE control unit is then operational again |

The display reads **E + an error code**

**NOTE:** (If different error code than shown below, contact customer service)

| Possible Cause  | Remedy                                       |
|---|--|
| ☰ There is an internal fault in the SMART-SPFE control unit | ☰ Proceed as indicated in the following list |

## Troubleshooting

| Code | Description                | Remedy   |
|------|----------------------------|--|
| 00   | ☰ Internal Error Channel 1 | ☰ The control unit is defective, contact customer service to get replacement parts   |
| 01   | ☰ Internal Error Channel 2 |  |
| 12   | ☰ Defect Channel M1        | ☰ Ensure all cables are plugged in, factory reset.<br>If error code persists, swap motor cables plugged into control box around. If code remains the same replace control box. If code changes to different number check for faulty leg and replace. |
| 13   | ☰ Defect Channel M2        |  |
| 24   | ☰ Overcurrent Motor M1     | ☰ Check for obstructions and remove. Factory reset.<br>If error code persists then replace control box.  |
| 25   | ☰ Overcurrent Motor M2     |  |
| 67   | ☰ High Voltage             | ☰ Unplug the power cable and contact the customer service<br><br>Make sure the control unit is connected to the voltage stated on the label  |
| 81   | ☰ Internal Error           | ☰ Make zero setting<br><br>Unplug the power cable and plug it in again after a few seconds. If this error occurs frequently, contact customer service to get a replacement control unit.   |



The Power Fail detection identifies mains power breakdowns and saves all relevant data before the voltage falls below a critical threshold.

In some exceptional cases, this storage is not possible and the error E81 is shown on the remote control display (if available) and the SMART-SPFE clicks three times.

To rectify this error, zero setting is necessary.



If the mains power supply is lost or becomes disconnected from the control unit during movement of the drives, zero setting might be necessary.

## Troubleshooting

### 6.3 Click codes

When the control unit is switched on the SMART-SPFE uses its relays to inform the user acoustically about the system state and the reason why the control unit was switched off before. The table below shows which number of clicks corresponds to certain information.

| Number of clicks | State information   |
|------------------|---|
| 2x               | <p><b>Normal operation:</b><br/>No problems detected</p>  |
| 1x               | <p><b>Emergency operation:</b><br/>The system is in Safe-State, movement is not possible. Check error codes, refer to section 6.2 (only external remote with display). Perform zero setting, refer to section 4.1 or reset to factory settings (Only with programmable remote).</p> |
| 3x - 6x          | <p><b>Last shutdown incomplete / forced reset:</b><br/>Check error codes on the display of the remote control, refer to section 6.2. Perform zero setting, refer to section 5.1 or reset to factory settings (Only with programmable remote).</p>                                   |
| 0x               | <p><b>The control unit is defective - contact customer service to get replacement</b></p>   |