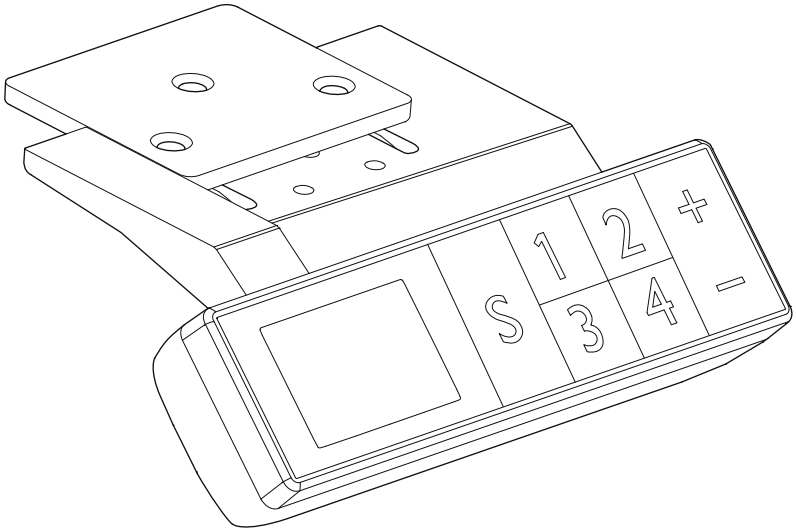
# JS-Drive controller + JS-Drive panel matched to the PRO panel casing





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# An exemplary interface of the panel

**Description of panels' buttons:**

Function button S – Invoke a function
Save 1 button – Save and set height 1
Save 2 button – Save and set height 2
Save 3 button – Save and set height 3
Save 4 button – Save and set height 4
Up button 5 – Go UP
Down button 6 – Go DOWN

# Initiating operations

When there is an abnormality in the system or the message **„RST"** appears on the manual controller, it is necessary to initialise the desk controller.

The initialisation operation consists of pressing and holding the `DOWN' button until the motor stops, releasing it and then pressing **„DOWN"** for **5 seconds** to automatically enter initialisation mode. The **„DOWN"** button cannot be released at this point - if you release the **„DOWN"** button, the system will stop initialisation mode. When initialisation is complete, a you will hear a beep, which indicates a successful initialization.

# Operating the `UP' and `DOWN" buttons

When the **„UP"** button is pressed, the worktop moves upwards until it reaches its maximum height. When the `DOWN' button is pressed, the worktop moves downwards until it reaches its minimum height. When the **„UP"** or **„DOWN"** buttons are pressed briefly, the worktop moves a short distance respectively to reach a comfortable worktop position.

# Saving worktop positions and memory operations

Up to 4 desk positions (heights) can be saved in the PRO control panel. The saving method is as follows: set the desk to the desired height, when it is reached press the `S' button and then select **„save as X"** (1-4), the position will be available under the selected button **X** (1-4).

# Settings of maximum and minimum height

The system supports saving a height range in which the worktop can move. The saving method is as follows: when the worktop is at the height you want to save as the limit, press the**"UP"** + **„DOWN"** buttons for **5 seconds** to save the position. You will hear a sound and see a message on the display that the position has been successfully saved. When the worktop is in the upper part of the height range the upper limit (maximum height) is stored, and when the worktop is in the lower part of the range the lower limit (minimum height) is stored.

Deleting a saved height range: reset the system and the height range is cancelled

# Locking and unlocking

Lock: Press and hold **„S"**+ **„UP"** buttons simultaneously for **5 second**. When the display shows the **„Loc"** message, this means that the system has been locked and the height cannot be controlled.

Unlock: Press and hold **„S"** + **„DOWN"** buttons simultaneously for **5 seconds**. When the **"Loc"** message disappears, this means the system has been unlocked.

# Restoring factory settings

If you the desk frame has been replaced or if you need to restore the factory settings, press and hold the **„UP"** + **„DOWN"** buttons for **10 seconds**. After this time, you will hear a long beep and the parameters will be reset to the factory settings. A forced initialisation process will start.

# Internal parameters and installation distance setting

Press and hold the**"S"** button for **5 seconds** to enter the settings interface, the display will show **„S-x"** („x" flashes – „x" is a parameter group). At this point, press **„1"** to enter the parameter group and set the corresponding parameters, or press **„UP"** and **„DOWN"** to switch the parameter group. Once the parameters have been set, press **„SET"** (**S**) to return to the desk control interface.

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The following parameters can be set:

**a)** **„S-1"** change of units mm/inch - 0 means mm, 1 means inches,
**b)** **„S-2"** anti-collision sensitivity based on speed - 0 means anti-collision is off, 8 means high sensitivity and 1 means low sensitivity,
**c)** **„S-3"** upward motion overload sensitivity (motor current too high) - 0 means function deactivated, 8 means high sensitivity and 1 means low sensitivity,
**d)** **„S-4"** sensitivity of overload in downward movement (motor current too high) - 0 means function deactivated, 8 means high sensitivity and 1 means low sensitivity,
**e)** **„S-5"** indicates the mounting distance in cm,
**f)** **„S-6"** automatic movement of the worktop - 0 means that you have to hold the button until the desired position is reached, 1 means automatic movement when the button is pressed, and any button stops it,
**g)** **„S-7"** running time 2/18 - 0 means function is disabled (the system relies solely on the temperature protection controller), 1 means that the 2 min of movement for 18 min of rest function is enabled,
**h)** **„S-8"** protection resulting from different lengths of the desk's legs - 0 means the function off, 1-8 mean 0.5˚-4˚ difference respectively.

# Error codes

| ERROR CODE | DESCRIPTION | SOLUTION |
|---|---|---|
| **E01** | Mains voltage exceeded by 45V | Check power supply |
| **E02** | Height difference between desk legs exceeds 1 cm | Initiate the desk |
| **E04** | Faulty connection of the manual controller or communication error | Check panel cable |
| **E05** | Displayed when the table/desk is locked | Release button and restart |
| **E06** | Main power supply start-up failed, voltage below 20V | Replace main power supply or check the main power supply connection cable |
| **E07** | Protection when the main power supply is operating, voltage below 20V | Reconnect power supply |
| **E08** | Desk / table tilted while moving | Re-initiate the desk |
| **HOT** | The temperature of the power supply is too high or has been running for more than 2 minutes in 18 minutes | Wait for the power supply to cool down or wait 18 minutes for the system to restart |
| **E11** | Motor No. 1 not connected | Check connection cable |
| **E12** | Error in current sampling channel of motor No. 1 | Replace controller |
| **E13** | Motor No. 1 is out of phase, there has been a disconnection with the controller | Check if motor can be connected to the controller |
| **E14** | Hall fault of motor No. 1 or disconnection of Hall wires | Check Hall signal or replace connection cable |
| **E15** | Internal short circuit of motor No. 1 | Replace motor |
| **E16** | Motor No. 1 locked | Re-initiate the desk |
| **E17** | Motor No. 1 runs in the wrong direction | Switch motor cables or Hall wires |
| **E18** | Load on motor No. 1 is too high, overload | Reduce the load on the worktop |
| **E21** | Motor No. 2 not connected | Check connection cable |
| **E22** | Error in current sampling channel of motor No. 2 | Replace controller |
| **E23** | Motor No. 2 is out of phase, there has been a disconnection with the controller | Check if motor can be connected to the controller |
| **E24** | Hall fault of motor No. 2 or disconnection of Hall wires | Check Hall signal or replace connection cable |
| **E25** | Internal short circuit of motor No. 2 | Replace motor |
| **E26** | Motor No. 2 locked | Re-initiate the desk |
| **E27** | Motor No. 2 runs in the wrong direction | Switch motor cables or Hall wires |

| | | |
|---|---|---|
| **E28** | Load on motor No. 2 is too high, overload | Reduce the load on the worktop |
| **E40** | Serial connection has a break in the controller | Check connection cable |
| **E41** | Serial signal error | Check connection cable or replace controller |
| **E42** | Memory error | Replace controller |
| **E43** | Stop - sensor fault in case due to an obstacle | Replace controller |

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