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## Keypad Manual Instructions V2.3.3



Image 1: Controller keypad

**Note: After assembling the unit, you are required to calibrate (sync) see section 3. Normal operation and setting can only be completed after the calibration.**

### **Operating mode**

#### **Hibernate Mode**

##### **1) Automatic Hibernate**

If there is no key action for a certain period of time (set to 5 minutes), the keypad will lock the keyboard, the LED display will go off immediately, and the main control box will enter a deep sleep state.

Once this happens, you can awaken the main control box by pressing the S button to enter the working state. At the same time, the LED display will be lit, the keyboard will be unlocked, and the keypad will return to the working state.

## 2) Fast Hibernate

In the normal mode, click the S key to lock the keyboard, the LED display will go off immediately, and the system will enter the sleep state after 1 minute. Click S again to immediately restore the LED display, unlock the keypad, and wake up the system.

## Normal mode

Key	Action	Description
∧	Long press	Long press the up button, the table moves up, release it to stop
∨	Long press	Long press the down button, the table moves down, release it to stop
1	Click on	Run to number 1 stored position (recommended for standing height)
2	Click on	Run to the stored position of number 2 (recommended for sitting height)
1	Long press 3 seconds	Save the current position as position 1, the success LED displays SUC flashes 3 times to exit.
2	Long press 3 seconds	Save the current position as position 2, and the successful LED displays SUC flashes 3 times to exit.
S	Click on	Lock the keyboard, the LED will go off immediately, and it will automatically enter deep sleep after 1 minute. Click S again to immediately unlock the keyboard and wake up the system.
S	Long press 5 seconds	Enter the main menu and select: SET/RST/CAL/RET, corresponding to the "set/reset/calibrate/return" function, click/switch the menu item, press S to confirm the current selection and enter the corresponding menu function.

**In normal mode, the LED displays the current desktop height value in real time.**

## Menu mode

### 3.1 Main menu function:

In normal mode, press and hold “**S**” for 5 seconds to enter the main menu function selection. You can switch between SET/RST/CAL/RET function options by clicking “**S**”, click S again to select the current function, and the LED will begin to flash. The function definition corresponding to the menu is as follows:

Menu	Description
SET	After selecting and entering, the LED flashes to display <b>SET</b> and enters the setting function. For detailed functions, see the following.
RST	After selecting and entering, the LED will display 8.8.8. Restart after flashing 3 times and restore to factory settings.
CAL	After selecting and entering, the LED flashes to display <b>CAL</b> , and at the same time, the calibration is performed automatically. After the calibration is successful, the <b>SUC</b> flashes for 3 seconds and then automatically returns to the normal mode.
RET	After selecting and entering <b>RET</b> flashes 3 times after entering, exits the menu and return to normal mode

**Note: If there is no further operation within 30 seconds after entering the main menu, it will automatically return to the normal mode.**

### 3.2 Setting functions:

Button	Operating	Directions
^/√	Press	^: <b>UP</b> ; √: <b>DOWN</b> , see the following description.
1	Press and release	<p>Press <b>1</b> to enter the unit of measure setting, ^/√ any key to switch between inches and centimeters.</p> <p>LED flashes to display the current unit of measure (U0 or U1),</p> <p>Press "<b>S</b>" to save the settings, LED display <b>SUC</b> flashes 3 times and returns to normal mode.</p>
1	Press and hold for 3 seconds	<p>Sets the lower limit height.</p> <p>The LED alternately refreshes and displays "<b>LOL/current height</b>".</p> <p>Press ^/√ to run to a suitable height.</p> <p>Press <b>S</b> to store the current height as the lower limit of the interval. The LED prompts <b>SUC</b> to flash 3 times and then returns to normal mode. If it fails, the LED prompts <b>FAL</b> to flash 3 after returning to normal mode.</p>
2	Press and hold for 3 seconds	<p>Sets the upper limit height.</p> <p>The LED alternately refreshes and displays "<b>LOL/current height value</b>".</p> <p>Press ^/√ to run to a suitable height. Press <b>S</b> to store the current height as the upper limit of the interval. The LED prompts <b>SUC</b> to flash 3 times and then returns to normal mode. If it fails, the LED prompts <b>FAL</b> to flash 3 after returning to normal mode.</p>

**Note: If there is no operation within 30 seconds during the setting process, the original settings are retained and back to normal mode.**

Under the setting mode, the LED operation prompts relevant information, See below:

LED Code	Directions	Description
<b>SUC</b> flashes 3 times	Successful operation	Example: After the calibration operation is successful, the column will return to the lowest position; if the limit height is set successfully, the column will run in the lowest and highest interval.
<b>FAL</b> flashes 3 times	Set operation failed	Example: If the height setting is wrong or calibration fails, FAL will be displayed
<b>U0/U1</b> flashes	Current unit: metric/imperial	When setting the unit, the current unit setting is displayed.
Number flashes	Enter energy saving mode or current value of sensitivity setting	Press $\wedge/\vee$ Numbers increase/decrease.

### 3.3 Hidden menu function (not available to end user):

In normal mode, long press **S** and hold for 5 seconds, after displaying the main menu, long press **S** again and hold for 5 seconds, after the LED flashes three times, it will open the hidden menu function: SES (sensitivity) / TST (automatic test), the menu displays " SET/ RST/CAL/SES/TST/RET" you can switch between each function option by pressing  $\wedge/\vee$ , and press **S** again to select the current function. The newly added SES/TST function is defined as follows:

SES Sensitivity	Press <b>S</b> to enter the <b>SES Sensitivity</b> mode, the current <b>sensitivity value</b> is displayed, the initial value is 5, press $\wedge/\vee$ to decrease/increase the current value, the value range is 0-32, the lower the value, the higher the sensitivity, and 0 means turn off the vibration detection function. Press <b>S</b> again to save the current new setting and return to normal mode.
TST Test	Press <b>S</b> to enter TST mode. The LED flashes to show TST and enters the automatic test. During the TST test, TST and the corresponding working status are displayed alternately: 1) Calibration steps, TST/CAL values displayed. 2) Running steps, TST/height values are displayed. 3) The rest steps, TST/H01 are displayed alternately. Press <b>S</b> again to stop the automatic test and return to normal mode. Once the automatic test starts, you must press <b>S</b> to stop and return to normal mode.

#### 4. Error reset recovery mode

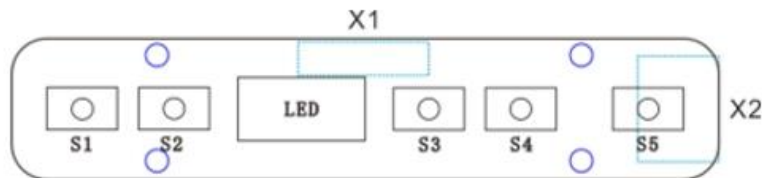
When the system detects an abnormal situation in operation, the system will enter the error recovery mode, The button function will be forcibly locked or may not work normally according to the error situation, and the relevant abnormality codes will be displayed on the digital display.

Refer to the following list for the definition of LED abnormal prompt:

Error code	Directions	Symptom
CAL Calibration	Calibration required	The system needs to be recalibrated. For example: the column does not work synchronously, the system operation will stop immediately, digital display show: <b>CAL</b> , Handset can only perform calibration operations, and other functions are locked.
H01 Hot	Working system protection	All the columns stop working, all functions button will be locked, error codes and countdown (minutes) are displayed alternately, the digital display shows the current height after the time counting over, and all the button recover

**Remarks: If any cable is cut or the column or control box is replaced, the calibration must be performed again, otherwise it will cause abnormal operation.**

Hand control keypad (PCBA)



1. Hand control layout

No.	Description	Remark
S1	Up	
S2	Down	
S3	Memory 1	Regular standing height
S4	Memory 2	Regular sitting height
S5	Complete/Wake	S
LED	Digital display	
X1	Connecting port to OM-CTR002Controller)	XH2.5 1*8P
X2	USB-A Charge port	TYPE-A