Instruction Manual for Independent Weighing System

I. Weighing function and calibration function description

1：Please check the system again after the connection of each component, and then turn on the AC power. 2：
Function description

Figure 1 Schroder Bes Scale embrane
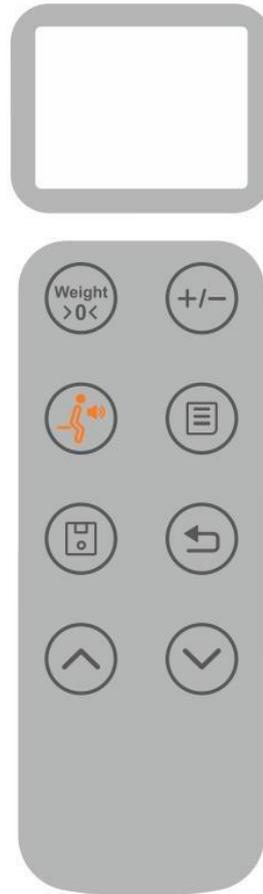
（1） **Please check the values of the four-corner sensors, and check whether the bed frame is leveled and whether the sensors are installed in place.**

In the weighing interface to perform the following steps.

Table 1 Four-corner weight display function

Steps	Icon	Function description
1、press ▤ to enter the menu	Load Cell Data / KG / LB / Load Cell Calibration / CH / EN	∧：Up menu selection； ∨：Down menu selection； ▤：Confirm； ↩：Back
2、∨ Select Load Cell Data	Load Cell Data	
3、press ▤ to enter the four-corner weighing display interface	1 -5.1kg -4.2kg 2 4 -7.3kg -10.2kg 3	In this interface, you can view the weight of the four corners. 1, 2, 3, and 4 respectively represent the weight of the load sensor on each corner. Please check if the difference between the maximum value and the minimum value is within 10KG.
4、If the maximum and minimum values are within 10KG, press ↩ to Menu interface.	Load Cell Data / KG / LB / Load Cell Calibration / CH / EN	If the maximum and minimum values exceed 10KG, you can directly adjust the sensor or bed frame in step 3. The weight will be displayed in real time until it is adjusted to within 10KG, press ↩ to Menu interface
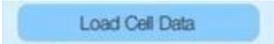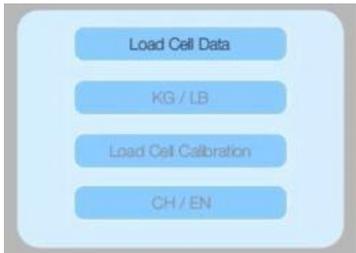
Remark：

The data displayed on the weight display interface are unprocessed actual weights, which are mainly used to inspect whether the bed is leveled or whether the sensor is installed correctly. The data is for reference only and has no practical significance.

We recommend that the difference between the maximum and the minimum weight value on the display interface be less than 10KG, which can indicate that the bed is basically leveled and ensure weighing accuracy. If the customer cannot adjust it within 10KG during the process, he or she can contact the salesperson.

（2） **Calibration**

Remark：

The accuracy of the weighing system needs to be established with a good test platform. Difference debugging is an important step to assist customers in verifying and adjusting the rationality of the design and installation of the weighing bed, also the goodness of the sensor installation, and optimizing the weighing test platform. After the sensor is installed, the difference debugging test must be performed.

During the calibration process, the accuracy of the weight/load must be ensured to ensure the final weighing accuracy.

Steps	Icon	Function description
1、If the previous step is completed and you are in the interface as right, please proceed directly to step 2. Otherwise please press to enter the Menu	Load Cell Data KG / LB Load Cell Calibration CH / EN	：Up menu selection； ：Down menu selection； ：Confirm； ：Back
2、Press or to enter Calibration interface	Load Cell Calibration	
3、Press to enter the calibration step, prompting to empty the bed	Please make the bed flat and remove all items from bed	This interface prompts the user to empty the bed of items, and the next step will be 0-setting.
4、Press , it will prompt "Please calibrate 0.0kg", perform 0-setting	Zero Adjustable 0.0 kg Please Adjust	Please make sure that the load on the bed has been emptied and is in the weighing zero point status
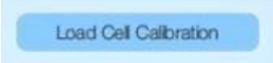
5、Press to confirm that the 0-setting is successful		0-setting successful. (If it prompts that failed, try to return to the previous level by pressing once more. And repeat steps 4 and 5
6、Press to weight calibration		When entering this interface, the default value is 150.0KG. You can adjust the correction weight in step 7.
7、press or can adjust the weight.		Press to increase by 1kg; Press to decrease by 1kg. Long press for continuous changes The weight range is 10KG-250KG. Customers can choose it according to the accurate load weight they have on hand (we take 70kg as an example)
8、After the weight is adjusted, place the set load weight on the bed frame (for example, if we set 70KG, we must place a 70KG load on the bed frame)		The load is generally evenly distributed in the middle of the bed frame rather than placed at the four corners; **The accuracy of the load weight must be ensured, otherwise it will directly affect the final weighing accuracy (for example, I set 70KG and actually placed 67KG. After the calibration is completed, the measurement of 67KG shows 70KG, and the weighing is inaccurate)**
9、Please check whether the load weight on the bed is placed correctly, press to confirm it		If the calibration fails, it will prompt Please check whether the load weight is misplaced; Please check whether the bed frame is severely deformed, or the sensor is not installed in place. Because the cumulative error of load + bed frame

and the calibration is successful		exceeds 5KG, it cannot be calibrated (for example, I placed 67KG, but due to the actual bed frame, the detected weight may be 60KG or 73KG, if it exceeds ±5KG, the calibration will fail) If calibration failed, press ⬅ to return to the previous level, and then press 🗒 to confirm after adjustment.
10、Press 🗒 to enter the difference debugging interface. (The load requirements for debugging the difference are the same as the load in the previous step)	**Corner Calibration** 1 **70.0**kg 2 Correct Weight 4 70.3 kg 3 Set Weight	1/2/3/4, the four corners can be automatically identified by the software without manual recording;
11、, The four sensors are installed at the four corners of the bed frame respectively. Move the load to one of the corners, wait for the actual weight value to stop changing within 2 seconds, and click 🗒	**Corner Calibration** [1] **70.0**kg 2 Correct Weight 4 [70.3 kg] 3 Set Weight	The error between the current total weight and the corrected weight must be within ±5KG, otherwise the difference correction cannot be successful; Move the load to the corrected corner, make sure the load no longer changes, stabilize for 2 seconds, and then press 🗒 for confirming; Click once 🗒, if the correction of this corner is successful, the corresponding number will light up, as shown on the figure (the software can automatically identify which corner it is)

12、Refer to step 11 and move the load to the other three corners in turn until all the numbers in the four corners are lit and the difference debugging is successful.	Corner Calibration 1 70.0 kg 2 Correct Weight 4 70.3 kg 3 Set Weight	1/2/3/4, the software can automatically identify them.
13、Press , indicating calibration succeed.		
14、Press to back to Menu interface	Load Cell Data KG / LB Load Cell Calibration CH / EN	
15、Finally press to return to the weighing interface and you can weigh	Before weighing please make the bed flat 0.0 kg Current Weight	

（3）**Record historical data and view historical data**

Table 2

Steps	Icon	Function description
1 、 In weighing interface	Before weighing please make the bed flat 0.0 kg Current Weight	Press the save button on the weighing interface to save the current weight data. The data number is 1. The previous data is postponed according to the number. Up to 10 historical data can be saved.

2、 In weighing interface, press ⌃ or ⌄, historical data can be checked		Displaying historical weight information, sorted by serial number from from new to old.
3、 In historical weighing interface, press ⌃ or ⌄, we can switch pages		No. 1-5or No.6-10 2 pages
4、 In historical weighing interface, press 💾 for 10s to reset data		Press 💾 for 10s to reset data. (All will be shown as 0.0kg)

（4） **Weighing function description**

Remark：The premise of the description of the weighing function is that the display interface is in the weighing interface, as shown in Figure 3.

Figure 3 Weighing interface

Table 3

Unit switch： **Press** 📋 to Menu	Kg/lb unit switching

Press ⌃ or ⌄ to select KG/LB	
Weight >0<	Press and hold the button for 3 seconds, hearing the buzzer, release the button, the reset is completed, and the system will set the current weight to 0; Press and hold the button for 3 seconds, and the buzzer will sound. Continue to press and hold for 7 seconds without releasing, and the buzzer will sound for a long time. Release the button at this time, and the system will display the actual weight.
Out of bed alarm	Alarm button: Press the button to turn on the bed exit alarm. The weighing alarm icon can be displayed in the weighing interface. After the bed exit alarm is on, if the weight at the next moment is detected to be more than 10kg/22lb lighter than the weight at the previous moment, the buzzer will sound and the alarm will start. The alarm will automatically stop after 30 seconds, and the out-of-bed alarm will be turned off at the same time. During the process, press the button to turn off the alarm, and the weighing alarm icon will be cleared at the same time.
+/− Compensate button	Press and hold the button for 3 seconds in the weighing state. At this time, a compensation symbol will appear in the center of the weighing interface, as shown on the right. +/− Entering the compensation state, increasing or decreasing the weight, the display will not change. Press the compensation key again to exit the compensation mode. Note: If the bed exit alarm function is turned on when entering the compensation mode, the system will automatically turn off the bed exit alarm function.
Language switch： Press 📋 To Menu Press ⌃ or	CH / EN Switching between Chinese and English can realize power-off preservation, that is, after switching to English, the English language will still be displayed after power-off and on again.

⌄ to select	
CH/EN	