

## Sales &amp; Service Network



## Scale Users Guide - K9 Series ISHTAA SCALES INC., INDIA

[www.ishtaascales.com](http://www.ishtaascales.com)

**WARRANTY CERTIFICATE**

Customer Name: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_ Invoice/DC No: \_\_\_\_\_

Stamping Quarter \_\_\_\_\_ VCNo. \_\_\_\_\_

Model: \_\_\_\_\_ Sl.No: \_\_\_\_\_

Dealers/Agent Name : \_\_\_\_\_

\_\_\_\_\_

The manufacturer warrants all products shipped from India against defects in MATERIAL and WORKMANSHIP for a period of One (1) year for standard line of products. All OEM and custom built orders carry (1) year warranty for MATERIAL and WORKMANSHIP. Warranty will not be applicable for Battery and adaptors. Normal wear and tear, injury by natural forces, user neglect and purposeful destruction are NOT covered by this warranty. Technical Service MUST be performed by authorised staff or factory authorized personnel. Manufacturer's obligation is limited to replacement of parts that have been so returned and are disclosed to Manufacturer's satisfaction to be defective. The provisions of these warranty clauses are lieu of all other warranties, expressed or implied, and of all obligations or liability in connection with sale of said articles. ISHTAA makes no -warranty of merchantability or fitness for a particular purpose. By accepting the goods, the buyer acknowledges that the buyer has determined that the goods are suitable for the buyer's purposes. In no event shall the Manufacturer be liable for any subsequential or special damages. Any misuse, improper installation or tampering shall VOID this warranty.

Product that is malfunctioning within the 1-year warranty period for scale line and 1-year warranty period for OEM products may be returned to Manufacturer for Warranty Evaluation at the customers' expense. Manufacturer reserves the right to repair OR replace the components free of charge as may qualify under this warranty.

REMINDER!! WARRANTY DOES NOT COVER USER DAMAGE AND ABUSE. In addition to a listing of the repairs covered under warranty, if any, the customer will be billed accordingly for all parts and labour associated with any NON-WARRANTY repairs made to the product.

The unit is meant for commercial & Legal Business Purposes. Warranty is not Valid if the unit is used for any purposes.

This Warranty card should be completely filled. Any Change in address should be notified to the service center immediately.

**INTRODUCTION:****Welcome to Ishtaa Scales**

Congratulations on your purchase of ISHTAA Electronic Weighing Scales. You have chosen Right Brand to weigh your materials accurately always.

Every care has been taken during manufacturing to get better accuracy always.

**UNPACKING**

Unpack the scale carefully and save the packing materials for future Transportation use if required Confirm the contents of the packing as per your order.

**INSTALLATION REQUIREMENTS**

For obtain better results, we recommend that the scale should be kept in the following conditions.

1. Stable Solid working Surface
2. Not subject to Vibration
3. Not in Excess Moisture Area
4. Dust Free
5. Not Exposed to Heat and Radiation
6. Away from Magnetic Interferences
7. Any other environmental features that may affect the accuracy of the scale
8. Temperature range between 0- 45c degree
9. Stable Power supply

**INSTALLATION:**

By adjusting the four legs keep the scale in perfect horizontal position.

Remove the Transport lock from bottom of the machine.

Place the weighing pan on the scale. Make sure that the Weighing pan surface does not touch any other object or cabinet

If scale is with second display, fix the display in to connector provided in the back side of the scale.

Plug the AC power cord to AC power socket and switch ON.

Switch ON the scale. Make sure that the -weighing pan is empty before Switching ON.

Scale will do self test and come to "0 " and its ready to use now.

**GENERAL CARE TO GET ACCURATE RESULT**

- a. In order to get the precision results, its better to switch on the scale 1 Sminvtes before use.
- b. Always keep the scale in stable solid surface

- c. Gently place the weights on weighing pan and weight should not be more than the scale capacity.
- d. Do not allow the weight to remain on the scale for long time than the time required/or weighment
- e. The scale is programmed for 9e steps plus scale capacity before it Table Top overload.
- f. Battery must be used once in a week for long term better performance.
- g. Use always your fingers to operate the keys.
- h. The scale should be cleaned regularly with a soft cloth or brush. Mild cleaning agent should be used to remove the dirt and stubborn grime. Never place and handle the scale in wet condition.
- i. Spillage during weighing process should be removed immediately.
- j. Never hit the pan and overload the scale.
- k. The scale should be cleaned in its normal condition. The load cell may get damaged if the scale is tilted on its side or is kept upside down.
- l. For appropriate display clarity the indicator should not be placed in direct sunlight, and must be placed on a sturdy platform. Heavy vibration and highly dusty area also seriously effect the life of the Table Top.

### **BATTERY:**

The Scale uses a 6V Sealed lead acid rechargeable Battery. The user must make sure to connect the battery correctly, that is the RED wire should be attached to the RED (+) end of the battery and the BLACK wire should be attached to the BLACK (-) end of the battery. Wrong connections can damage the battery and the Scale beyond repairs, so be very careful while making the connections.

Also note:

- Please charge the battery for at least 20 hours before using the Scale for the first time.
- The battery automatically gets charging once the Scale power cable is plugged in to the mains; hence only make sure that the RED LED on the top right side of the display is ON.
- If the scale is not used for long, the battery will discharge under self leakage, and hence should be charged from time to time. Ideally the battery should be charged for at least 10 to 12 hours every two months to prolong the battery life.

### **MAINTENANCE:**

Please note the following points of care for the Scale to prolong its life:

- Make sure to turn off the power while installing or removing the power cable of the Scale from the mains supply.
- Make sure to switch off the Scale while connecting or removing the loadcell connector.
- Make sure that the loadcell connector is properly connected to the Scale and secured with the screws provided with the connector.

"RNG 03 ": Follow the above procedure, only remember that you have to enter the DIV, DECIMAL and CAP thrice instead of once or twice. The maximum number of counts allowed for each capacity range will be 10000 counts or less, and hence the setting should be entered accordingly.

NOTE: Please make sure that for "RNG 02 " and "RNG 03 ", the lower DIV and CAP is entered first, and then the higher DIV and CAP.

External Calibration Settings (Without Division, Decimal and Capacity setting):

Press the ZERO key and switch on the scale. The display will show "PASS" and then "000000 ". Press the ZERO key. The display will show "CAL". Press the ZERO key. The display will briefly show "no Load " and then the internal division at no load condition. Make sure for the decimal point to stop blinking, and then press the ZERO Button. The display will show "LOAD " briefly and then again the internal counts. Keep the calibration weight and press the ZERO key. The display will show "000000 ". Now enter the value of the calibration weight kept using the MODE and PCS Key. Finally press the ZERO key. The display will show the calibrated weight. If the difference between this external calibration and the previous internal calibration is more than 5%, the new calibration will not be stored and the Scale will pick up the values/setting according to the old internal calibration only. If the user feels that the new external calibration is correct and still the Scale is not accepting it, then the correct way to do the calibration will be to do the internal calibration again.



**CALIBRATION:**

Internal Calibration Setting (With Division, Decimal and Capacity setting):

Press the ZERO key and switch on the scale. The display will show "PASS " and then "000000". The user should enter the password XXXX" using the PCS and MODE keys. Now press the ZERO Key The display will show "CAL ". Press the ZERO key again. The display will show "RNG 01" use the following table to select the appropriate setting of RNG

| Range                 | Maximum Counts                     | Example   |
|-----------------------|------------------------------------|---|
| RNG 01 (Single Range) | 30000 counts or less               | 300kg x 10gm  |
| RNG 02 (Dual Range)   | 1500 counts for each range or less | 150kg x 10gm (15000 div)<br>300kg x 20gm (15000 div)                            |
| RNG 03 (Triple Range) | 1000 counts for each range or less | 100kg x 10gm (10000 div)<br>200kg x 20gm (10000 div)<br>300kg x 50gm (6000 div) |

"RNG 01": Press the ZERO key the display will show "div X", select the value of the least count between 1,2 or 5 using the MODE key. Press the ZERO

again, the display will show "000000 ", now select the decimal point position using the PCS shift key. Press the ZERO key the display will briefly show "CAP "and then display the previously entered Capacity. Enter the new Capacity using the MODE and PCS Keys. Press the ZERO key the display will briefly show "noLoad" and then the internal division at no load condition. Make sure for the decimal point to stop blinking, and then press the ZERO key The display will show "LOAD " briefly and then again the internal counts. Keep the calibration weight and press the ZERO key the display will show "000000 ". Now enter the value of the calibration weight kept using the MODE and PCS Keys. Finally press the ZERO key the display will show the calibrated weight. Please remember that the value of the DIV, DECIMAL and CAP should be entered remembering the maximum allowed counts are 30000 counts or less otherwise the Scale will not accept the setting and display "ERR"

"RNG 02 ": Follow the above procedure, only remember that you have to enter the DIV, DECIMAL and CAP twice instead of once. The maximum number of counts allowed for each capacity range will be 15000 counts or less, and hence the setting should be entered accordingly.

**LOADCELL CONNECTION TO MAIN BOARD**

|      |   |                          |
|------|---|--------------------------|
| (E+) | → | Load Cell Input (Red)    |
| (E-) | → | Load Cell Input (Black)  |
| (S+) | → | Load Cell Output (Green) |
| (S-) | → | Load Cell Output (White) |
| (SH) | → | Shield Wire Load Cell    |

**2. ON / OFF Switch:** The on/off switch is provided at the bottom of the Scale to turn on and turn off the Scale Under most recommended conditions, make sure to turn off the Scale when not in use for long time, and it is most recommended that the power cable of the Scale should always be connected to the mains power socket.

**3. Second Display Connector :** The 15 pin connector in the bottom of the Scale provided for the second display connections. The normal Scale has only a dummy 15 pin connector and the connections inside the Scale or the second display are not provided. If you need Scale with second display connection to the connector by default, then please order -with display model.

**OPERATION**

Switch On: The scale can be switched on using the on/off switch at the bottom of the Scale The display will show Start up message and Version no. of the software, and then display "0.00"

**KEYS & CONTROLS**

This key is used to zero an unwanted reading on the display. This is also used for going in to the calibration mode.



This key is used for holding the weight on the display.



This key is used for Setting the LOW and HIGH LIMIT in the scale. The key is also used as the up arrow key in the setting menu.



This key is used for counting function. This key is also used as the left shift key in the setting menu

## **Indications:**

There are three visual indications in the scale which are as follows:

**Power LED:** When you connect the power cable of the Scale to the power socket, the GREEN LED on the top right side of the display will glow. When the LED will glow, you can be sure the Scale is being powered from the main supply, and that the battery is being charged.

**Stable weight indication :** In the weighing or the counting mode, when you keep the weight you will notice that the decimal point is blinking. The blinking decimal point means that the weight is not stable. Once the weight is stable, the decimal point stops blinking and the user can be sure that the weight being shown is the correct weight.

## **Functions:**

**Mode Function:** The Scale has a hold Function which can be used to hold the weight display. In weighing mode, keep a weight and wait for the decimal point to stop blinking. Once the decimal point is stable, now user can press the MODE button. The display will start blinking, and the weight will be hold on the display without any movement if you add some weight or remove some -weight. Also if you remove the total weight, the previous weight will still be displayed at which the hold button was pressed. Now to come out of the hold mode, simply press the hold button again, or keep a new weight. The Scale will automatically understand a new weight has been kept, and it will exit the MODE mode, and display the new weight correctly.

**SET POINT Function:** The function is mainly used for packing or check weighing function. The user can pre define the level at which he needs the alarm to sound. When the display is showing "0.00", press the MODE key the display will show "SET LO", now press the zero button, the display will show "000000" or the previous entered value. Enter a value using the MODE and the PCS key and then press the Zero Key. Now the display will show "SET HI" and the user can similarly enter the HI value. The following logic is followed in this mode:

**SET LO value is entered only:** If the user only enters the SET LO value and keep the SET HI value as "0.00 ", the Scale will sound the beep sound below the SET LO value.

**SET HI value is entered only:** If the user only enters the SET HI value and keep the SET LO value as "0.00", the Scale will sound the beep sound above the SET HI value.

**SET LO & SET HI both are entered:** If the user enter both SET LO and SET HI value, the beep will not sound below between the SET LO and SET HI value range, and the beep will sound below the LO value and above the HI value.

**Counting Function :** The Scale has counting mode which can be used for parts counting. In the weighing mode, keep a weight on the scale. When the decimal point stops blinking, press the Counting key The display will show the value according to the previously entered data. Now press the SMPL key the Display will show "SM0010" which is selection mode for the number of pcs. Press the MODE key again display will show "SM0020", so that the user can select the appropriate number as per the number of samples kept on the scale in the beginning. After correct selection press the ZERO key the display will show the pieces counting. To go back to the weighing mode, press the Counting key again. You will come back to the weighing mode and the display will show the weight. Press the counting key again and again, to toggle between the counting mode and weighing mode.

## **SETTINGS:**

Press the MODE button and then switch on the scale. The Scale has the following user settings in this menu:

1. **DUMMY ZERO:** The user can enable or disable the DUMMY ZERO display with this setting. Select YES or NO depending on whether you want to display the dummy zero or not two MODE and Z/T Key.
2. **AUTO ZERO:** After dummy zero selection the display will show "A-0 X". Here the user can select the range of the autozero. "A-0 0 " means auto zero function disabled and the display will show even the first count from the zero level. "A-0 3 " means the auto zero range is 3d, meaning that the indicator will auto zero any reading between 0d and 3d at the zero level, to maintain the correct zero on the scale.
3. **SLEEP MODE :** When machine is not in use, select this functions for long battery backup.
4. **SMART MODE :** This function can be used for vibration zone. If you activate this function, weight will be displayed after few seconds, directly and after that if you touch the pan, there will be no change in the reading, It will show stable weight only.