

## Electronic Precision Scale

Max 5000g, d = 0.1g

# OPERATING MANUAL

### Scale Features

#### Weights in various modes:

- ✓ Grams
- ✓ Pounds and Ounces
- ✓ Pounds
- ✓ Ounces
- ✓ Troy Pounds and Ounces
- ✓ Troy Pounds
- ✓ Troy Ounces
- ✓ Penny Weights
- ✓ Drams
- ✓ Carats
- ✓ Grains

**Count** – User can define the sampling no or use the defaulted sampling no for counting.

**Hold Display** – User can hold the display for later reference.

**Memory** – The counts can be written to and read from the memory of the scale.

**Interface** – Displays weight on the PC.

### Specifications

* Capacity	: 5000g
* Graduation / Resolution	: 0.1g step
* Min startup weight detection	: 1.5g
* Accuracy	: $\pm 1\%$ of reading $\pm 1$ digit
* Power consumption	: Approx. 0.40 watts
* Tare	: Unlimited (not excluding the scale capacity)
* Weight of Unit Scale	: 1100g
* Dimensions	: 20cm X 24.5cm X 7cm
* Display	: Liquid crystal display with back light.
* Platform Size	: Fold up 19 cm x 12 cm platform
* Power Supply	: Mains via 12 Volts Main Adapter or 6 AA batteries (not supplied)
* Auto off	: Shut downs after 5 min of non use in battery.

## PREPARING THE SCALE FOR USE

- (i) Fit the weighing platform to the body of the scale via the location points, making sure that the platform opens toward the front (keyboard) end of the scale.
- (ii) Plug the mains adapter supplied with the scale into the mains and connect the adapter's output plug to the input socket at the rear of the scale.
- (iii) Place the scale on a firm level surface, switch on the mains supply and press on the scale the "ON/OFF" key.
- (iv) The display will indicate **0.0 gm** (default unit)

## OPERATING THE EXCEED- W SCALE

### Weighing

Pressing the corresponding key labeled with the specific unit of measurement will change to that unit of weight.

Press CE key to display only the weight on the LCD. This will clear the count or batch display from the LCD.

### Counting

There are two types of counting method:

- 1) Count by the software default sampling number:

Keys 1~ 9 are marked with numbers from 10~ 500. These are the default sampling no for the respective keys. For example, you have 50 items you want to sample, press 5. Put those 50 items on the platform and press Auto- CAL. Now the scale is ready to count as per this sampling. Next time if you are counting the same/similar objects then you can just press 5 and start counting without sampling. In the same way you can also Auto-CAL and sample the other items in other keys.

- 2) User can input his/her own sampling count number:

If want to sample the items with the sampling number other than those in the scale keys, then this option of counting can be used. For example, if you want to sample with 13 items, press COUNT key. Then press SET key. A cursor will blink on the LCD. Input 13 from the keyboard and press SET again. Now put the 13 items on the platform and press Auto-CAL. Now you can start counting. Next time if want to count the similar items you can just press COUNT key or 0 key and start counting.

### Batching

If you want to pack something in reference with some weight or package then this option can be used. You can either

- 1) Input the sample package weight via the keyboard (in gram in xxx.x format):

Press BATCH. Press SET, a cursor will blink. Input the weight of the sample package. For example if the package is 1.5kg, input 15000. Press SET. Now you can start packing. The weight % that is being packed will be displayed on the first line of the LCD. When the packed weight is beyond 100% the percent display will start blinking, indicating that the weight on this particular package is over.

- 2) Place the sample package on the platform and let the scale memorize the weight.

Press BATCH. Put to be sampled package on the platform and press Auto-CAL. Now you can start packing as per this sampling.

## DESCRIPTION OF OTHER KEYS

### Add in memory (M+) and Memory Read (MR)

This scale can memorize the total number of items counted. In the counting mode, when the count number is being displayed, if pressed **M+** the scale will add in the memory. To read the total numbers of items in the memory, simply press **MR** key. Pressing **SET** key while the memory count is displayed (while in **MR** mode) will erase the count memory and reset it back to 0.

## Tare

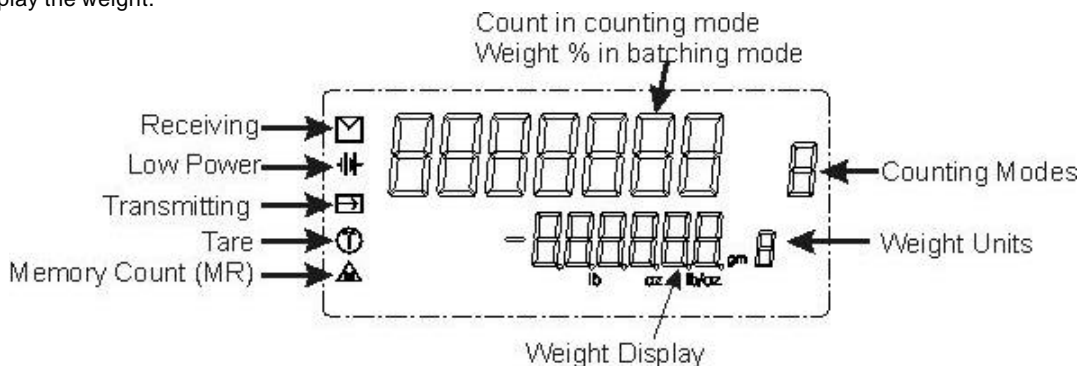
Pressing this key will set the weight/count to zero. This is useful if you have to take the weight with the container. Put the empty container and press **Tare**, the scale will zero itself now you can put the items to count/weigh and the scale will only display the weight/count of the items excluding the container. "T" in a circle is displayed on the lower left corner of the LCD when scale is in tare mode. Pressing the Tare key again will clear the tare effect.

## Hold Display

Press the hold key when **there is nothing** on the platform. Now put the object on the platform. When the weight of the object is stable, scale will display the weight and hold the display even if you remove the weight. To un-hold and go to normal mode simply press the **Hold** key. When the scale is in Hold mode the weight display will blink. The hold option is good objects of bigger area than the scale's platform area, in which case the user can't see the LCD when the object is placed on the platform.

## CE

In the user input mode, this key is used to clear the entry. If not in the user input mode, pressing this key will only display the weight.



## CONNECTING EXCEED W SCALE TO COMPUTER

1. Connect your Exceed W scale to your computer's available serial port using its RS232 cable (this interface cable is optional and is sold separately from the scale). Refer to latter part of this manual on how to purchase this interface cable.
2. You may download the sample PC program that displays the weight of items placed on Exceed W Scale. You may download this at: [http://www.postagescale.com/MSI/ExceedW\\_PC\\_Program\\_XMRev1.zip](http://www.postagescale.com/MSI/ExceedW_PC_Program_XMRev1.zip)
3. Run the program and choose the correct computer serial port where your Exceed W scale is connected.
4. The weight displayed on your scale's LCD is also displayed in this program.

## USER CALIBRATION OF THE EXCEED W SCALE

In case the scale loses its accuracy, then user calibration of the scale may be needed. The load cell of this precision scale is normally protected against overloaded weight applied slowly, but overload caused by dropping the scale or dropping something heavy on the scale may require re-calibration.

For user calibration you may need a calibration weight. But this cal weight should be greater than  $\frac{1}{4}$  of the scale maximum capacity. For example, in this scale of 5kg, you can take any weight greater than 1250g to 5000g. Let's say you have 2000g weight.

Press Auto-CAL during the start-up of the scale. A cursor will blink. Input 20000 from the keyboard. Display will change to CAL 0 in the first line and 0.0gm in the second line. Wait until the display change to CAL 1. Put 2kg on the platform and wait until the scale enters the normal weighing mode.

## OPERATING TEMPERATURE

The scale is designed to operate in a normal room temperature. If subjected to cold or warm temperature, it should be allowed to reach the room temperature before operating.

## ERROR DISPLAY

----- will display if the scale's maximum capacity is exceeded.

**Err** will display if the scale is started without the platform or with items placed on the platform.

If the scale keep displaying "Err" even if the scale has been started without anything on the platform, please follow the following instructions to fix the problem.

Turn off your scale and try putting the platform back to the scale or try removing the items placed on the scale's platform. Turn on your scale again.

If this does not solve the **Err** display problem, you need to perform Auto Zero-Point calibration on your Exceed W scale. Please follow these steps:

1. Remove any item placed on your scale's platform and turn on your scale.
2. When **Err** is displayed on the LCD, press **Auto-Cal** key on the keyboard. A cursor will blink on the scale's LCD.
3. Press **0** key and then press **Set** key on the keyboard.
4. At this point, the scale is adjusting its zero point value. Wait for the scale to finish this process. After this, it will restart by itself. Exceed W scale is now ready to use.

Note: This Auto Zero-Point calibration is only available in the latest software update. If the Err problem is not fixed by above procedure you need to download the latest firmware which can be found at:

[http://www.chinaeleccomp.com/ExceedDownload/ExceedWScale\\_PCProgram.msi](http://www.chinaeleccomp.com/ExceedDownload/ExceedWScale_PCProgram.msi)

Please read the following section for online software update procedure.

## ONLINE SOFTWARE UPDATE

Exceed W 5kg scale is capable of online software update. This means that you can instantly update your scale's software if you are connected to the Internet. Software updates are issued by Elane in cases where there are revisions in the scale software. Revisions include: software enhancements and improvements, error correction, and additional scale functions which are deemed necessary. Software updates are FREE.

You should have the latest version of Exceed W PC Program installed in your computer to perform software updates on your Exceed W scale. This application program can be downloaded for FREE.

You also need to have the INTERFACE CABLE of your Exceed W scale to connect it to your computer. This cable is optional for Exceed W scales and is sold SEPARATELY from the scale.

Please follow these instructions when updating your Exceed W scale software:

1. Register your Exceed W scale. You may register your scale at: <http://www.elane.net/exceedpc/exceedw/exceedwregistration.htm>. Please provide correct scale information during registration as this will become basis for scale software update. Providing exact scale information will ensure the correctness of scale software update.
2. Download the latest Exceed W PC Program at: [http://www.chinaeleccomp.com/ExceedDownload/ExceedWScale\\_PCProgram.msi](http://www.chinaeleccomp.com/ExceedDownload/ExceedWScale_PCProgram.msi) and install it in your computer.
3. Connect your Exceed W scale to your computer using its RS232 interface cable. You may use any working and available serial port of your computer. The RS232 interface cable of Exceed W is sold SEPARATELY from the scale. You may order this cable directly from us or from our website at: [http://www.elane.net/exceedpc/exceedw/interfacecable\\_order.htm](http://www.elane.net/exceedpc/exceedw/interfacecable_order.htm).
4. Run Exceed W PC Program and follow step-by-step instructions on how to update your scale's software.
5. Before Exceed W PC Program updates your scale, you need to choose what type of software update (Zero Tracking or No Zero Tracking) to program to your scale. Please refer to the succeeding section regarding these types of scale software.
6. Then Exceed W PC Program will download a file for software update. After successful file download, proceed updating your scale's software.
7. Wait for a confirmation that you have updated your scale's software successfully.

## ZERO TRACKING AND NO ZERO TRACKING SOFTWARE

There are two types of scale software to choose from during scale software update. These are Zero Tracking software and No Zero Tracking software. The Zero Tracking software is the default software of your Exceed W Scale. Below explains the differences of these two software types. Choose the software type that will suit your weighing needs.

In Zero Tracking software, small weights that are placed slowly on the scale's platform (below minimum weight) are considered zero and the value for zero weight is constantly adjusted also. This will cause problems if you are weighing items that are too light and below scale's minimum weight (example, weighing grains by slowly pouring

in the grains onto the scale's platform). If you use the Exceed W scale to weigh items that are always above the scale's minimum weight, this will not be a problem and the Zero Tracking software will work fine on the scale.

Contrary to the Zero Tracking software, the No Zero Tracking software can handle weighing of items that are below the scale's minimum weight. This software type is therefore advisable to users who use Exceed W scale to weigh very light items.

#### **EXCEED W INTERFACE CABLE**

Exceed W RS232 interface cable is an optional accessory of the Exceed W scale. This can be used to connect your scale to your computer and run application programs for Exceed W scale or perform scale software updates for Exceed W.

This cable is sold separately. You may order directly from us or from our [website](#).