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**SI** Division of  
Scientific Industries, Inc.



# Instruction Manual: DRX-4



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## Chapter 1: Cautionary Notes and Warnings

### Important handling Cautions and Warnings

Always handle your scale with care.

Damage caused by improper handling is not covered under the scale's warranty.



Never drop or throw any articles onto the scale's pan or onto any other parts of the unit!



DO NOT let the scale fall or drop from its tabletop surface!



When moving the scale do not press or apply force onto the scales pan!

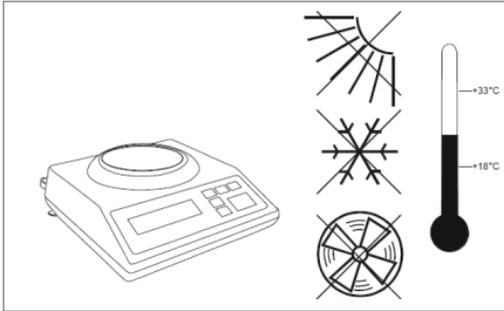


DO NOT pass or handle liquids directly over the scale to avoid spillage and liquid damage!

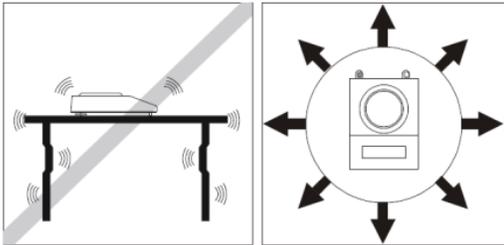
## CAUTIONARY NOTES AND PRECAUTIONS

Always handle your scale with care. The correct location and proper environment makes an important contribution to the accuracy of the weighing results of TORBAL precision scales.

### The optimum location for your scale:



- Stable, vibration-free base as horizontal as possible
- Away from direct sunlight
- Not exposed to high temperature variations
- Away from direct drafts
- The best location is on a stable bench away from direct drafts, doors, windows, radiators and air conditioner vents.



### CAUTION:



- The scale is designed for indoor use only.
- Do not operate the scale in hazardous areas or under dangerous conditions.
- Do not use the scale in locations subject to high humidity or dust.
- Do not connect cables in ways other than those mentioned in this manual.
- Set the scale on a firm, stable, horizontal surface.
- Never stand on or lean on this product. Equipment may fall or collapse, causing breakage and possible injury.
- Before moving the product, unplug it and unplug all cables connected to it.
- When storing, transporting or returning the scale for service, always use the original packaging.

### WARNING:



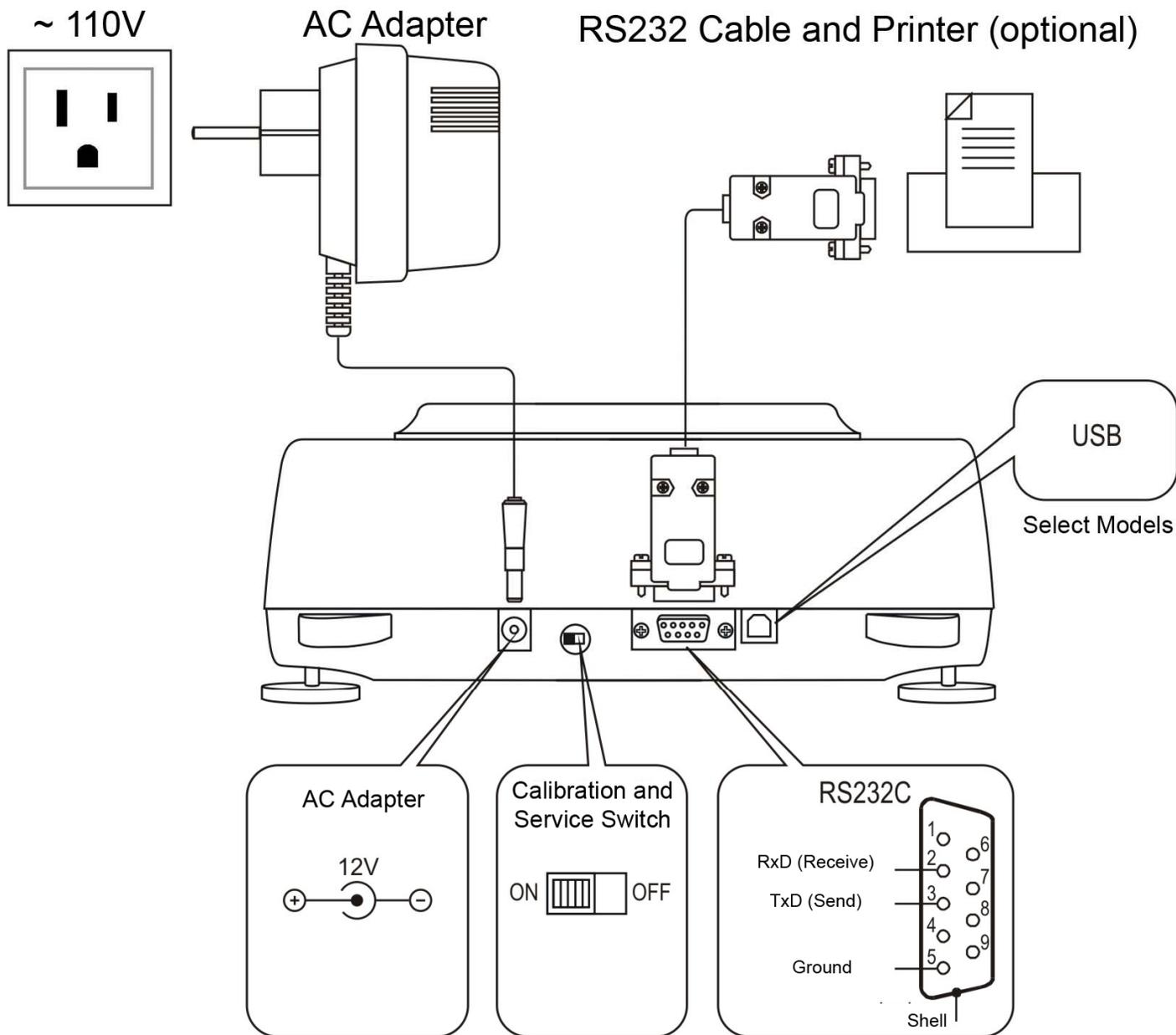
- Never attempt to repair, disassemble or modify the scale. Tampering with the scale may result in injury and cause greater damage to the equipment.
- Be sure to use the specified power source.
- Do not allow foreign matter to fall onto the scale.
- If water or other liquid spills onto the scale, unplug the power cord immediately and contact technical support.

## Chapter 2: Specifications

|                                   |  |
|-----------------------------------|--|
| <b>Model</b>                      | DRX-4  |
| <b>Capacity (Max)</b>             | 100g   |
| <b>Minimum load (Min)</b>         | 0.02g  |
| <b>Reading unit (d)</b>           | 0.001g   |
| <b>Verification unit (e)</b>      | 0.01g  |
| <b>Tare range</b>                 | 100g   |
| <b>Accuracy class</b>             | II   |
| <b>Temperature range</b>          | +15C to +30C                                   |
| <b>Weighing time</b>              | <3s  |
| <b>Certificate of Conformance</b> | NTEP Approved<br>Certificate Number: 04-061    |
| <b>Pan Dimensions</b>             | 116mm  |
| <b>Scale Dimensions</b>           | 235 x 245 x 80mm                               |
| <b>Power Supply</b>               | Input: 120VDC 60Hz 9.5W<br>Output: 12VDC 500mA |
| <b>Scale weight</b>               | 5kg  |
| <b>Calibrating weight</b>         | 100g   |

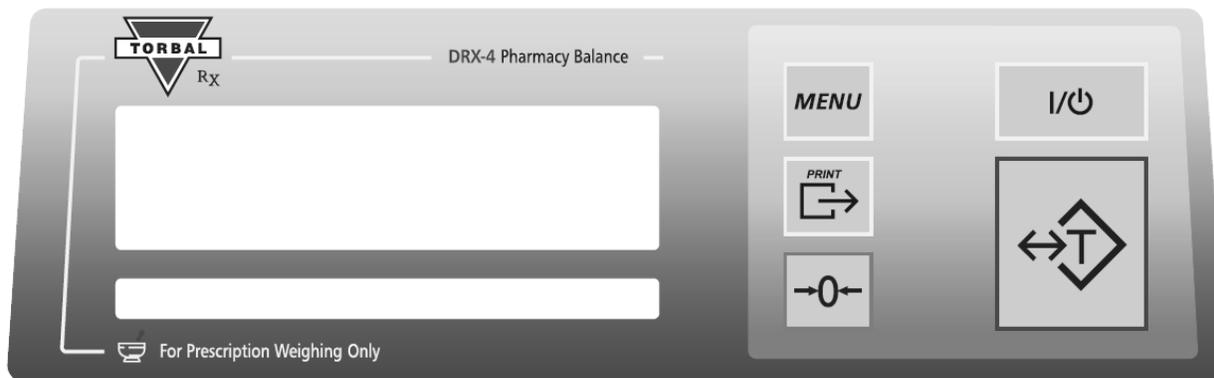
## Chapter 3: Part Specifications

|                          |                              |                               |                                 |
|--------------------------|------------------------------|-------------------------------|---------------------------------|
|                          |                              |                               |                                 |
| <p>Front</p>             | <p>Side</p>                  | <p>Rear</p>                   |                                 |
|                          |                              |                               |                                 |
| <p>Pan</p>               | <p>Pan Support</p>           | <p>Draft Ring</p>             |                                 |
|                          |                              |                               |                                 |
| <p>AC Adapter</p>        | <p>Leveling Feet</p>         | <p>Bubble Level Indicator</p> |                                 |
|                          |                              |                               |                                 |
| <p>AC Adapter Socket</p> | <p>Service Switch Access</p> | <p>RS232C Port</p>            | <p>USB Port (Select models)</p> |





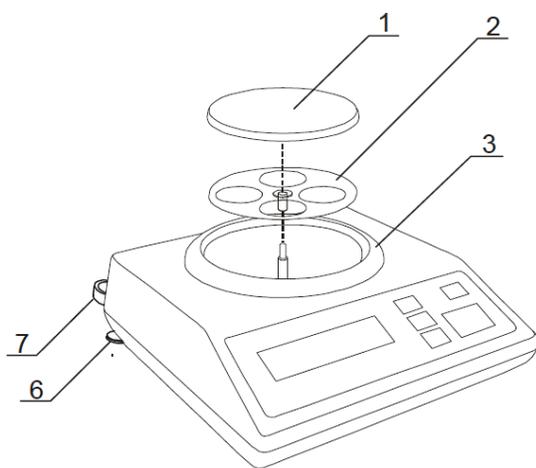
# Chapter 4: Keys and Display Indicators



| Key               | Primary Function  |
|-------------------|---|
| I/⏻               | Power On and Power Off  |
| ←→T               | <b>Tare</b> – used to tare the weighing pan / <b>Enter</b> – Used to accept commands                      |
| →0←               | Zero – used to zero the scale (Legal for Trade models only)   |
| MENU              | Menu – used to access the main menu   |
|                   | Data Transfer – used to print data or transfer data to a PC via the RS232/USB communication ports         |
| Display Indicator | Description   |
|                   | Stability Indicator - The weighing result has stabilized and an accurate reading may be taken.            |
| →0←               | Zero - The scale is maintaining a “center of zero” condition. (Legal for Trade models only)               |
| MODE              | Mode – The scale is in pill counting mode   |
| NET               | A tare was taken and the scale subtracted the tare weight from the gross weight to obtain the net weight. |
| AUT               | AZSM - Auto-zeroing Setting Mechanism is enabled (Always enabled in Legal for Trade Scales)               |

## Chapter 5: Unpacking the Scale and Getting Started

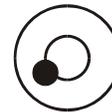
1. Carefully remove the scale, pan, and all of its components out of the packaging. Place them on a stable surface where the scale will not be affected by any mechanical vibrations or high air movements.
2. After removing the pan base and the pan from their packaging, carefully install the pan base (2) onto the scale by seating it on the pan support located in the middle of the scale. Once the pan base has been installed, carefully place the pan (1) on the base.
3. Once the pan has been installed, level the scale by adjusting the front feet (6) until the level indicator (7) shows the “air bubble” is in the center position of the sight glass. The level indicator is located on the rear left side of the scale.



- 1 – pan
- 2 – pan support (under pan)
- 3 – draft ring
- 6 – rotating legs
- 7 – level indicators

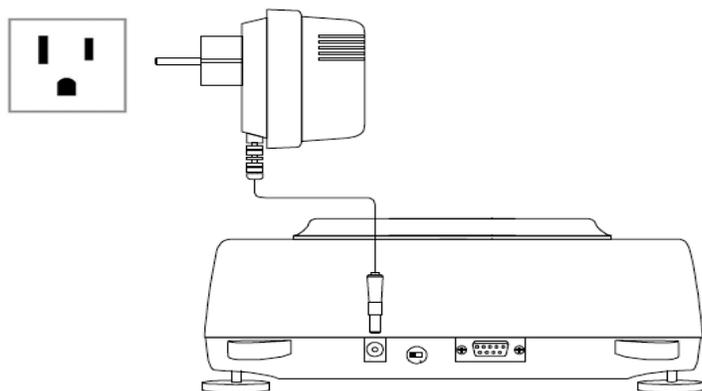


Correct



Incorrect

- After leveling the scale, plug the AC adaptor to the AC adaptor socket located in the rear of the scale.



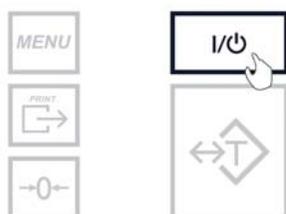
- When the AC adaptor is plugged into the wall outlet, the scale will automatically turn on, and go through its initialization process. If the scale is equipped with automatic internal calibration it will calibrate itself. The calibration process will initialize automatically whenever the scale is turned on. The scale will also calibrate whenever the temperature changes by 1 degree Celsius and at two-hour intervals. Calibration will initialize only if the scale has been stable and idle for 60 seconds, in order not to interrupt weighing operations. The scale will display “ $\overline{\text{CAL}} \text{E}$ ” when calibrating.



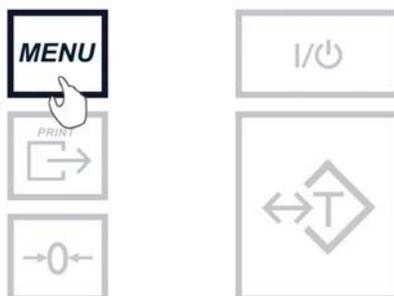
**Note – Automatic Internal Calibration Models:** When the AC adaptor is plugged into the wall outlet for the first time, the scale will automatically and frequently initialize temperature calibration as the internal parts of the scale heat up. The scale will display “ $\overline{\text{CAL}} \text{E}$ ” when calibrating. Once the internal temperature stabilizes, the scale will calibrate whenever the temperature changes by 1 degree Celsius and at two-hour intervals.

**Note:** The scale will always start up in the mode that was enabled when it was turned off.

- To put the scale into standby mode, leave the AC adaptor plugged into both the scale and the wall outlet and press the Power “OFF” button. The “OFF” indicator will light up in the upper left corner of the display signaling the scale is in standby mode.



## Chapter 6: Main Menu



**Users (USER5):** Assign up to five unique User ID numbers. The User IDs can be included in the transaction receipt when printing.

**Calibration (CALIB):** Manually begin automatic internal calibration. Print out calibration reports.

**Print (PRINT):** Configure format of the print receipt (i.e. date, time, and user ID).

**Serial Ports (PORT5):** Configure baud rates of the USB and RS232 ports.

**Date/Time (DATE):** Set the scale's time and date.

**Sound (SOUND):** Enable/Disable the scale buzzer.

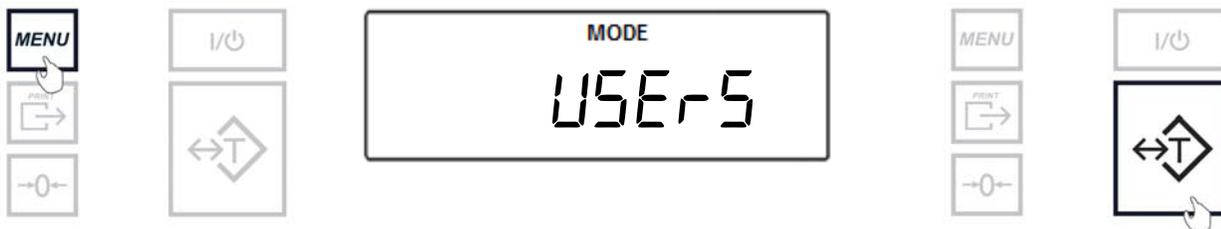
**Firmware (FIRMWARE):** Updates the scale firmware via PC.

**Default (DEFAULT):** Reset the scale to default factory settings.

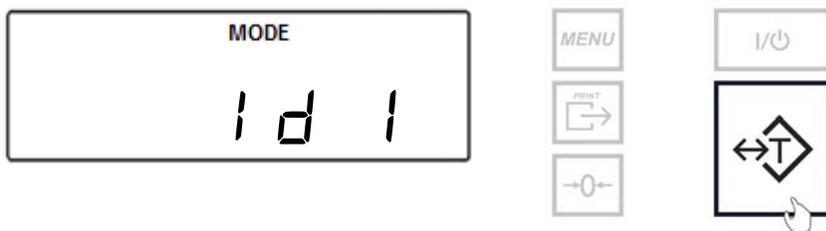
# Chapter 7: Users (USER5)

The Users menu allows for 5 unique user IDs to be entered into the system.

1. To set the user IDs, press the Menu key. Select “USER5” by pressing the T key.



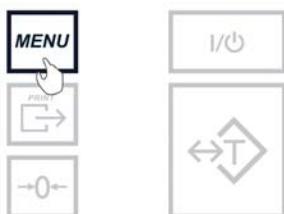
1. Choose an ID to edit (i.e. ID 1, ID 2...ID 5) by pressing the T key when it is displayed.



2. Press the T key to add a digit. Press the Zero key to increment a digit.



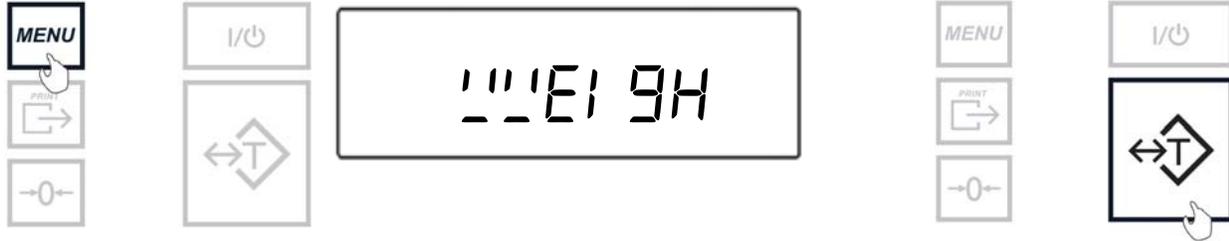
3. Press the Menu key to accept the ID number.



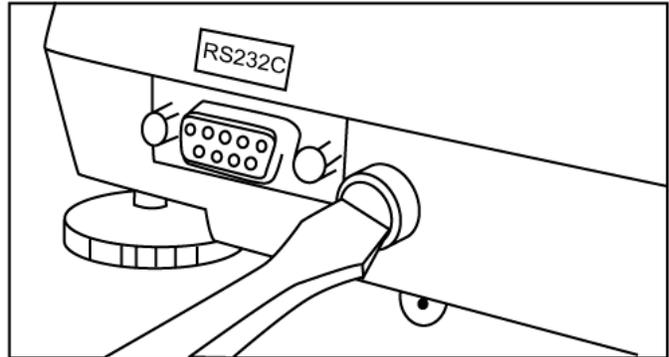
## Chapter 8: Calibration

External calibration can be performed with an external calibration weight equal to the scale’s capacity.

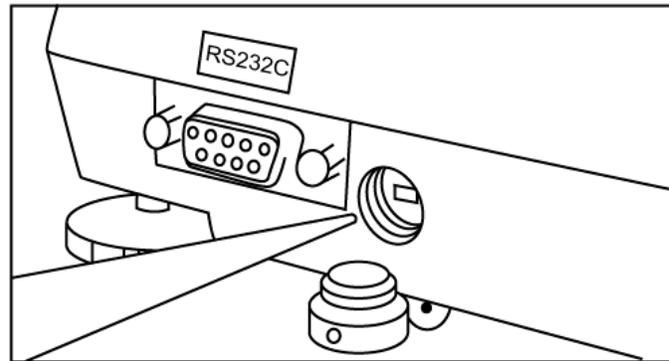
1. Enter the Weighing Mode by pressing the menu key. Select “TARE” by pressing the T key.



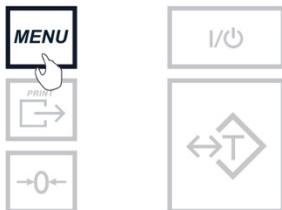
2. Use a flathead screwdriver to gently remove the Calibration Seal Screw located in the rear of the scale.
3. Once the screw has been removed and the calibration switch exposed, use a pen or another pointing device to toggle the calibration switch to the right (which is the ON position).



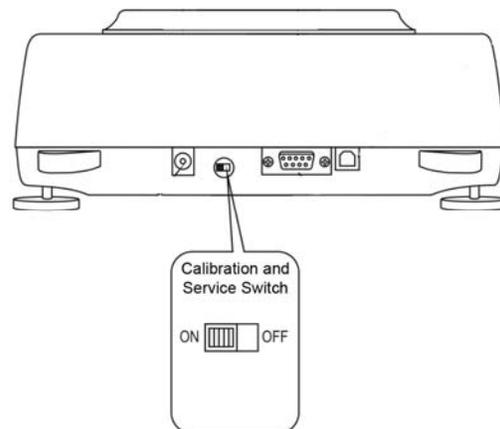
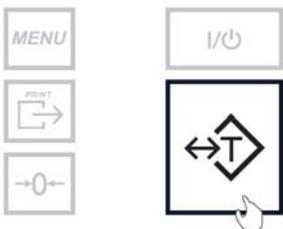
4. Upon toggling of the calibration switch, the balance will go into Calibration Mode.



5. To start calibration, press the Menu key.

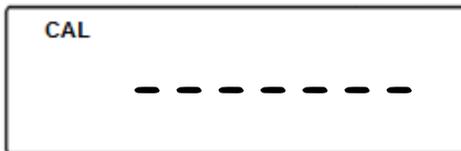


6. Select “Cal On” by pressing T key.

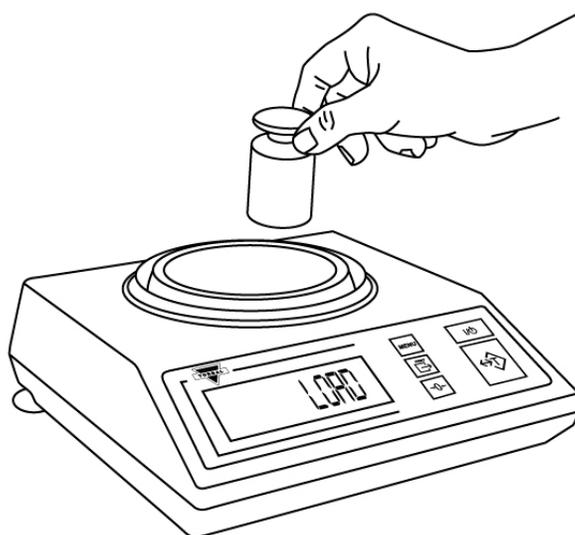




7. Wait for the scale to tare.



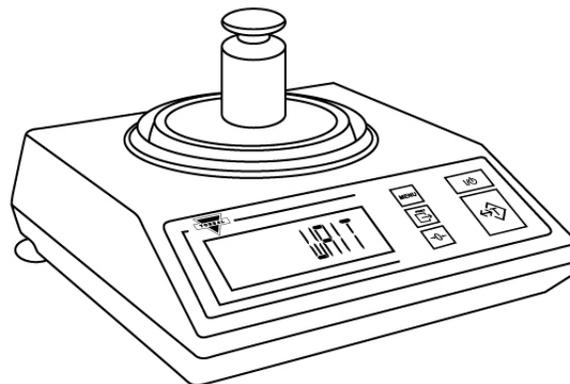
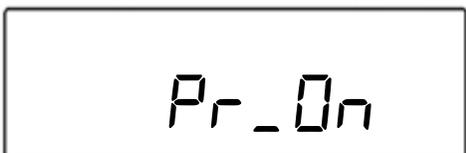
8. When prompted, load a calibration weight equal to the weight displayed on the screen. (Calibration weight varies by model).



9. Wait for the scale to calibrate.



10. When calibration has ended the scale will display Pr\_On. Toggle the calibration switch in the rear of the scale back to its original position.



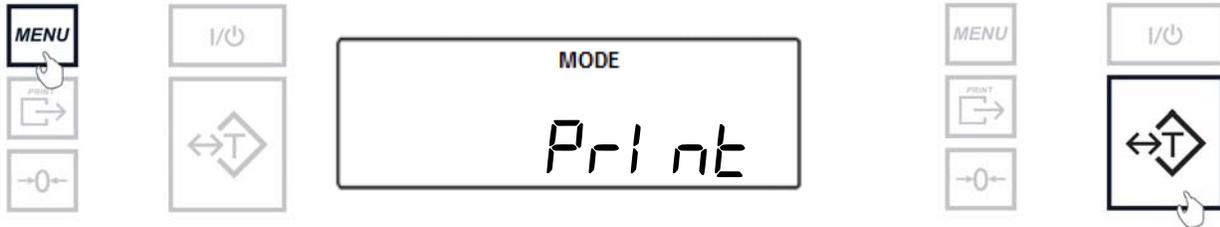
11. Insert the Calibration Seal Screw back into place.

# Chapter 9: Print (Print)

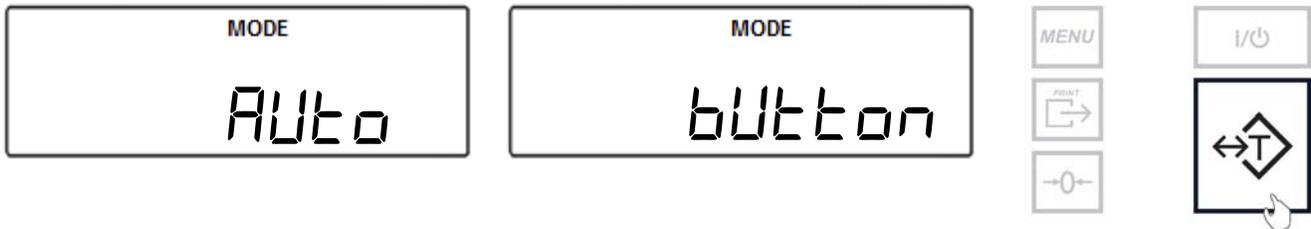
A detailed transaction receipt can be printed after a count or compound has been completed. The receipt can be produced **automatically** when the transaction ends or by **manually** pressing the print key. The scale can be configured to print additional information with the transaction's results.

## 9.1 Print Method

1. To configure the printing setup, press the Menu key. Select "Print" by pressing the T key.



2. Choose the method of printing by selecting either "Auto" or "button" by pressing the T key.



| Function Options: |          |  |
|-------------------|----------|--|
| Auto              | (Auto)   | Receipts will print automatically at the end of a transaction. |
| Button            | (button) | Receipts will print manually when the print button is pressed. |

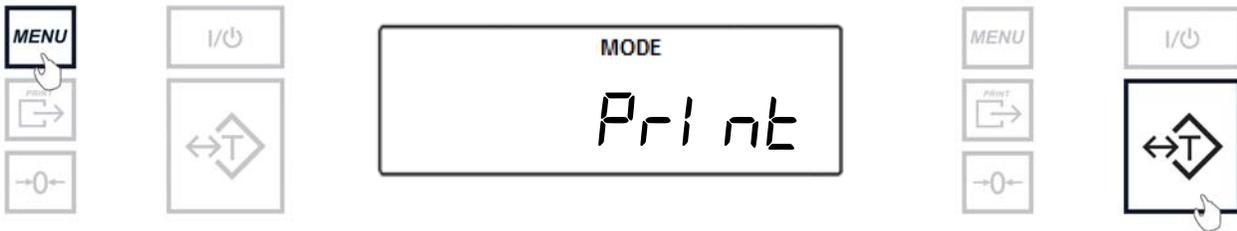
## 9.2 Print Configuration

The receipt can be customized to include the following information:

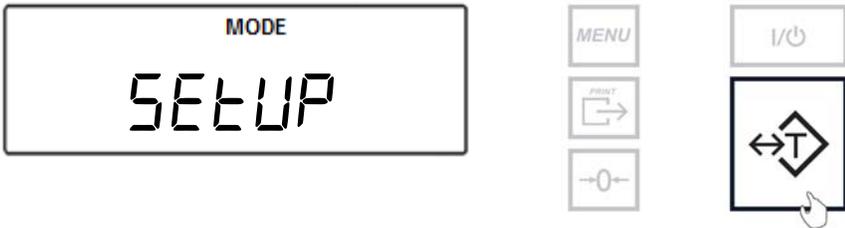
|  |   |
|--|---|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <small>MODE</small><br/>                 dAtE             </div>    | <b>Date</b> – Date of the performed transaction   |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <small>MODE</small><br/>                 tImE             </div>    | <b>Time</b> – Time at which the transaction was performed                                 |
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <small>MODE</small><br/>                 USEr Id             </div> | <b>User Id</b> – shows the ID number of the user which performed the weighing transaction |

The receipt information can be enabled or disabled by following these steps:

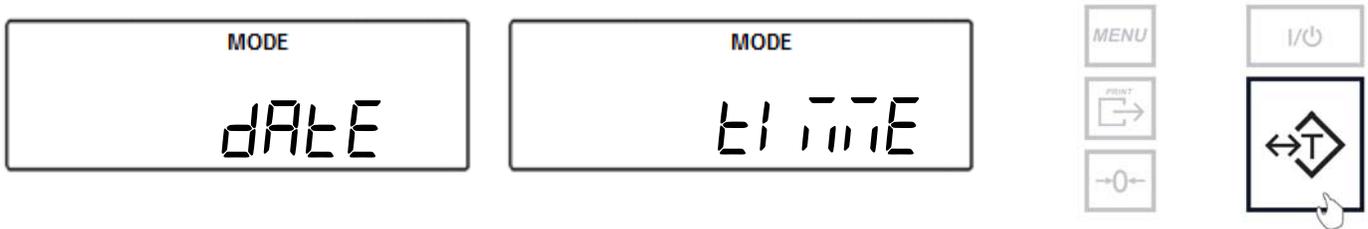
1. To configure the print setup, select “Print” from the main menu by pressing the T key.



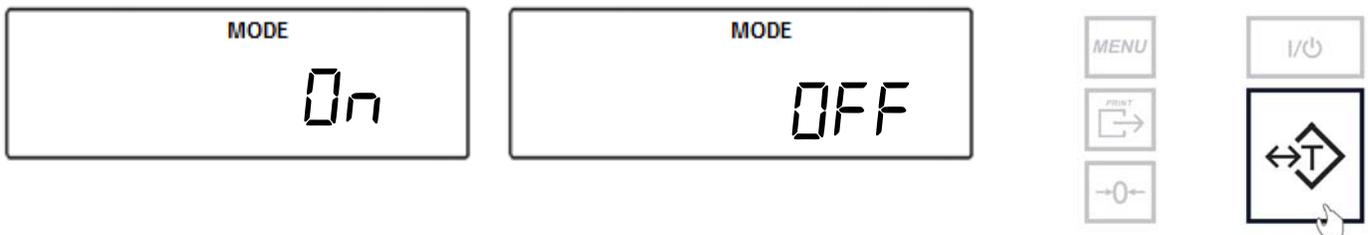
2. Select “SETUP” by pressing the T key.



3. Select a field to configure. Confirm the selection by pressing the T key.



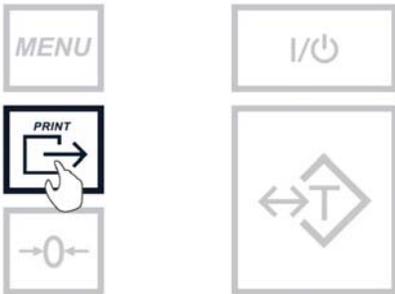
4. Choose “On” to include the field or “OFF” to exclude the field. To confirm the selection press the T key.





# Chapter 10: Ports (Port)

After a weighing or counting transaction is completed, a result data receipt can be printed. To initiate printing, press the data transfer key. Data may be sent to a printer or a PC via the Torbal Communication Software.

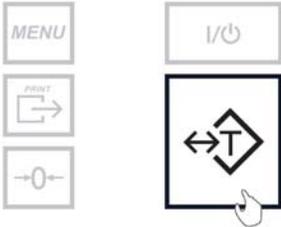


## 10.1 Baud Rate

1. To configure the Baud Rate select “bAUD” by pressing the T key.

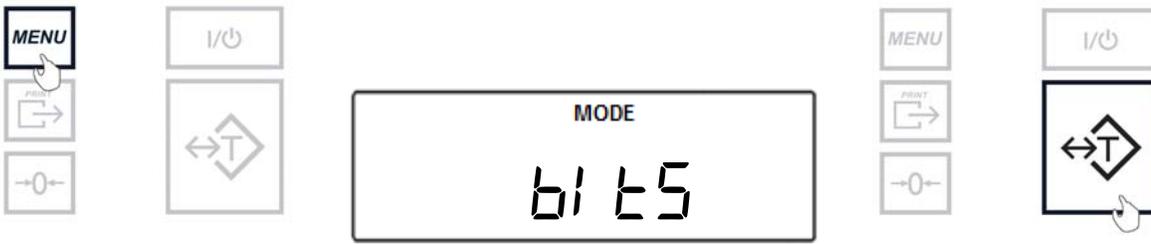


2. Choose the baud rate to be used (“1200”, “2400”, “4800”, “9600”, “19200”, “38400”, “57600”, and “115200”). To confirm the selection, press the T key.

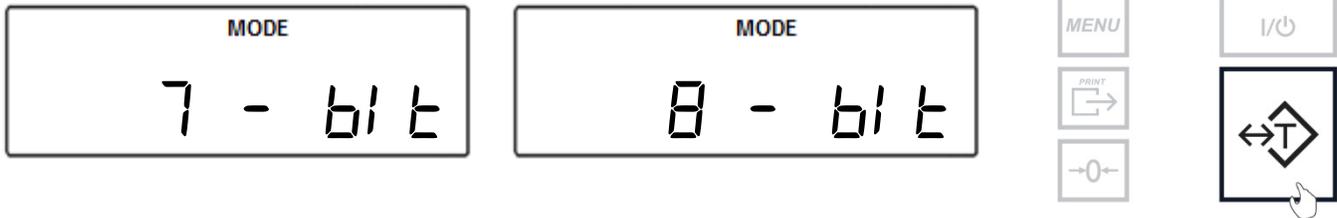


## 10.2 Bits

- To configure the number of bits select “bl t5” by pressing the T key.

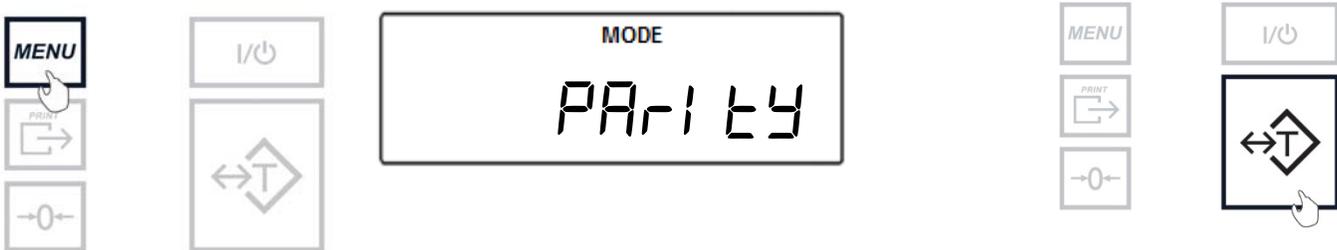


- Choose “7 bl t5” or “8 bl t5”. To confirm the selection, press the T key.

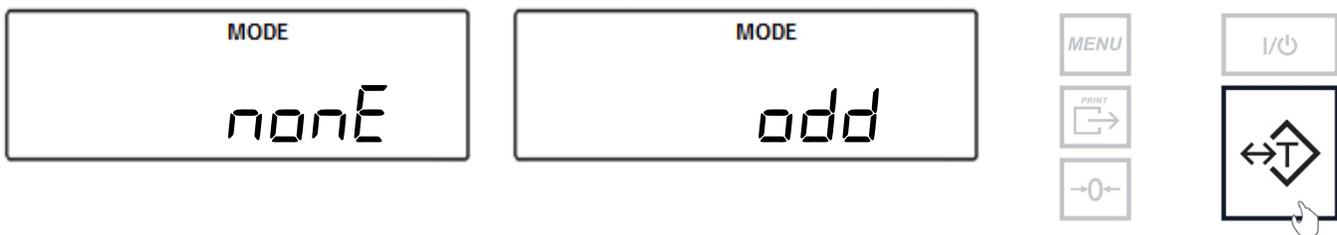


## 10.3 Parity

- To configure the parity type select “PARi tY” by pressing the T key.



- Choose the parity type to be used (“nonE”, “odd”, and “EuEn”). To confirm the selection, press the T key.



## 10.4 Data Transmission and Exchange Protocol

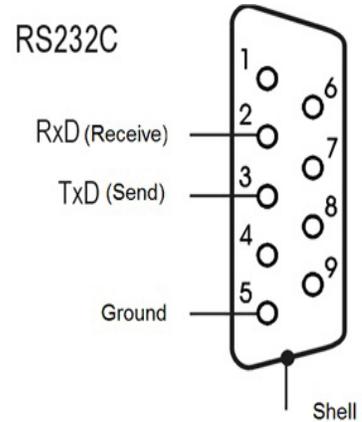
### Data Transmission (LONG):

Transmission Parameters: 8 bits, 1 stop bit, no parity, baud rate 4800bps,

### Exchange data:

- Transmit the weight (equivalent to the Print Key, , in weighing:  
 Computer→Scale: **S I CR LF** (53h 49h 0Dh 0Ah) – initiating signal,  
 Scale→Computer: scale sends 16 Bytes of data as follows:

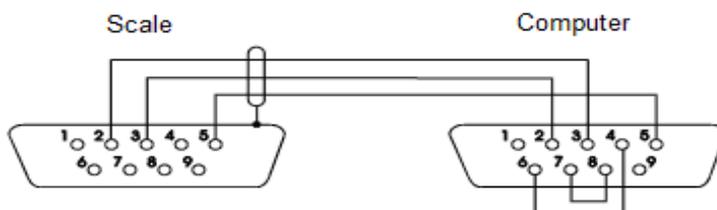
|       |     |  |
|-------|-----|--|
| Byte  | 1   | - The charater ‘-’ or space                  |
| Byte  | 2   | - space                                      |
| Bytes | 3,4 | - digit or space                             |
| Bytes | 5-9 | - digit, comma, or space                     |
| Byte  | 10  | - digit                                      |
| Byte  | 11  | - space                                      |
| Byte  | 12  | - k, l, c, p or space (for kg,lb,ct,pc, or%) |
| Byte  | 13  | - g, b, t, c or %                            |
| Byte  | 14  | - space                                      |
| Byte  | 15  | - CR   |
| Byte  | 16  | - LF   |



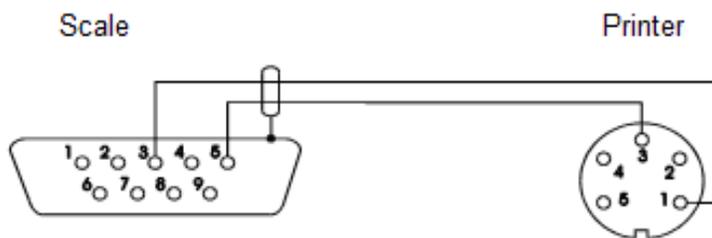
- ‘Tare the weight’ (corresponds to the →T← key in weighing):  
 Computer→Scale: **S T CR LF** (53h 54h 0Dh 0Ah),  
 Scale→Computer: no response.
- ‘Zero the scale’ (corresponds to the key →0← in weighing):  
 Computer→Scale: **S Z CR LF** (53h 5Ah 0Dh 0Ah),  
 Scale→Computer: no reponse.
- ‘Turn On / Off the Scale (corresponds to the key I/⏻ in weighing):  
 Computer→Scale: **S S CR LF** (53h 53h 0Dh 0Ah),  
 Scale→Computer: no response.
- ‘Display the MENU’ (corresponds to the key *MENU* in weighing):  
 Computer→Scale: **S F CR LF** (53h 46h 0Dh 0Ah),  
 Scale→Computer: no response.
- Setting the threshold 1 (optional):  
 Computer→Scale: **S L DI...DN CR LF** (53h 4Ch *DI...DN* 0Dh 0Ah)  
 where: *DI...DN* – Threshold value, up to 8 characters,  
 Scale→Computer: no response,

- Example:
  - To set 1000g in weight B1.5 (d=0.5g) type:  
S L 1 0 0 0 . 0 C R L F (53h 4Ch 31h 30h 30h 30h 2Eh 30h 0Dh 0Ah).
  - To set 100kg in weight B150 (d=50g) type:  
S L 1 0 0 . 0 0 C R L F (53h 4Ch 31h 30h 30h 2Eh 30h 30h 0Dh 0Ah),
- Setting the threshold 2 (optional):
  - Computer→Scale: **S H D1...DN** C R L F (53h 48h D1...DN 0Dh 0Ah),  
where: D1...DN – threshold value, up to 8 characters,
  - Scale→Computer: no response

**Cable WK-1 Configuration**



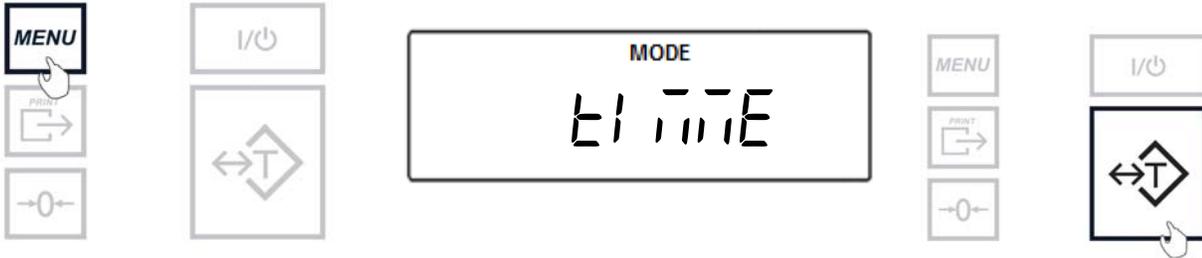
**Cable WD-1 Configuration**



## Chapter 11: Date and Time (تاریخ و زمان)

### Setting the Date

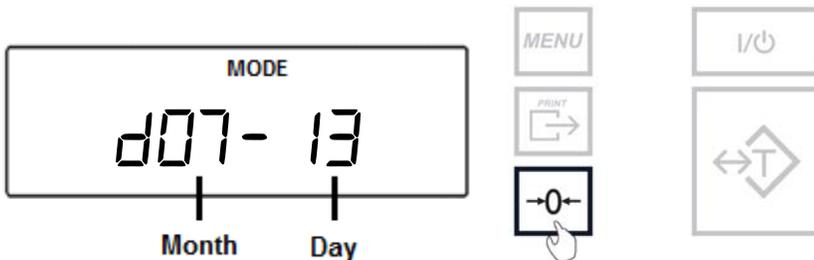
1. To configure the date, press the Menu key. Select “تاریخ و زمان” by pressing the T key.



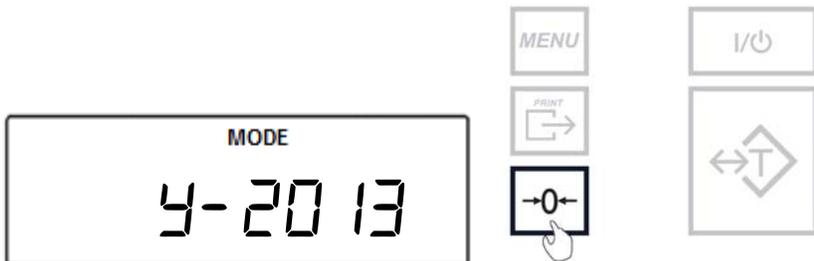
2. Select “DATE” by pressing the T key.



3. Press the T key to scroll between the month and then the day. Press the zero key to increment a digit.



4. Once the day and month are confirmed the screen will switch to the year. Press the T key to scroll between the digits and press the Zero key to increment a digit.



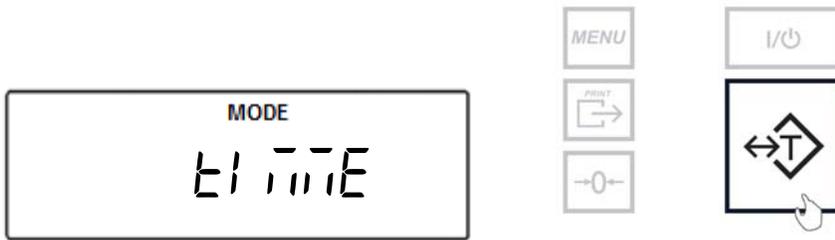
5. Once the date is confirmed the scale will automatically exit the menu.

## Setting the Time

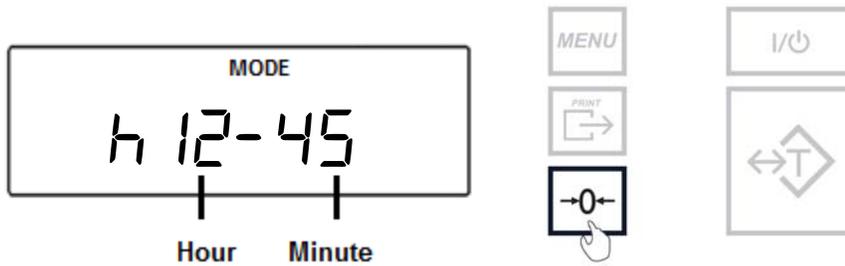
1. To configure the date, press the Menu key. Select “E/ M E” by pressing the T key.



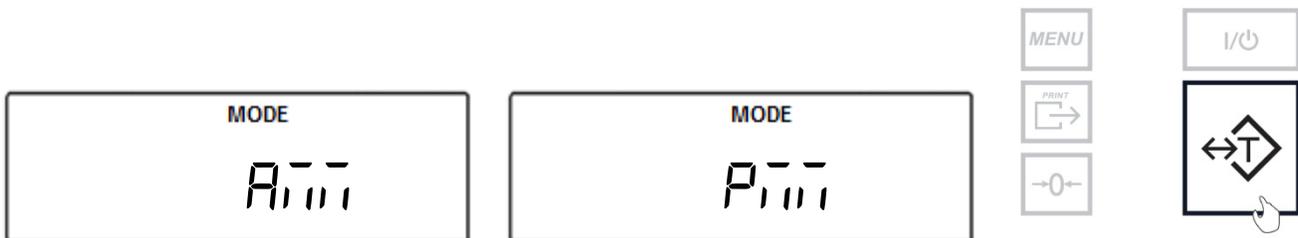
2. Select “E M E” by pressing the T key.



3. Press the T key to scroll between the minutes and then the hours. Press the Zero key to increment a digit.



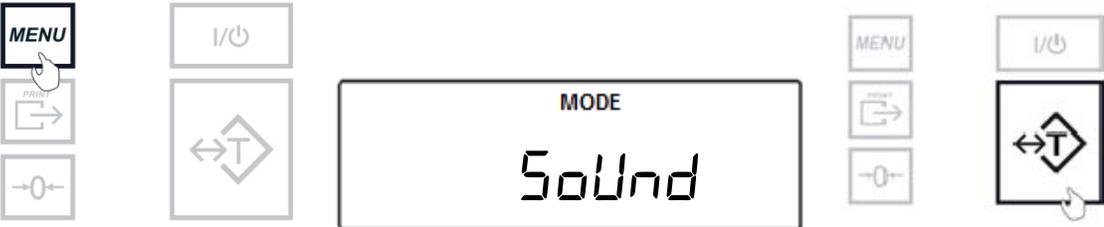
4. Once the minutes and hours are confirmed the screen will switch automatically to the time of day selection. Select “A M” or “P M” by pressing the T key.



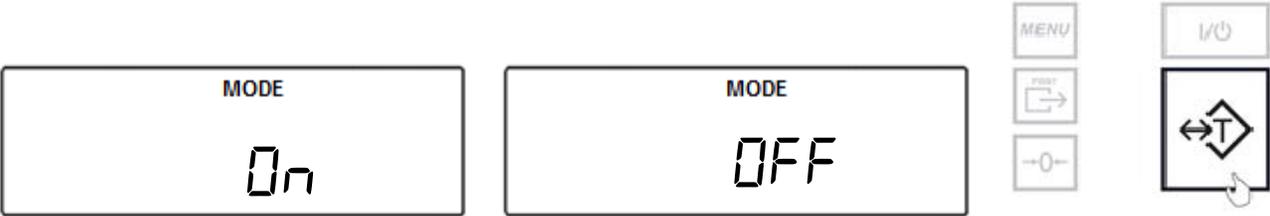
## Chapter 12: Sound (Σοῦνδ)

The keypad sound can be turned on or off from the Sound menu. When set to “On” the scale sounds a buzzer whenever a button is pressed on the keypad.

1. To configure the sound, press the Menu key. Select “Σοῦνδ” by pressing the T key.



2. Select “On” to enable the sound or “OFF” to disable the sound. To confirm the selection press the T key.



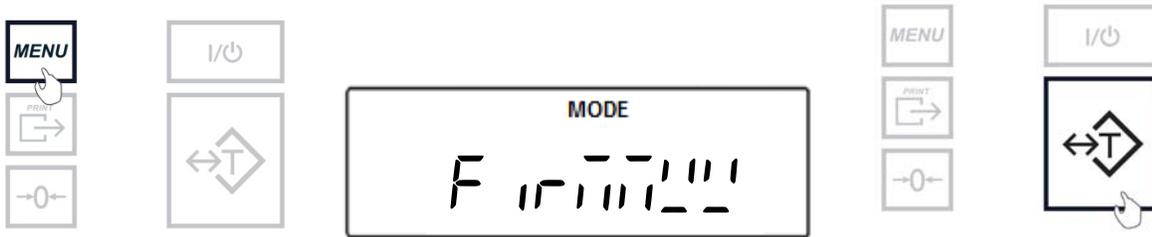
## Chapter 13: Firmware (Firmware)

To update the scale’s firmware, the scale must be connected to a PC. A firmware update must be enabled simultaneously through Torbal Utility software on the PC as well as the Firmware option on the scale itself.

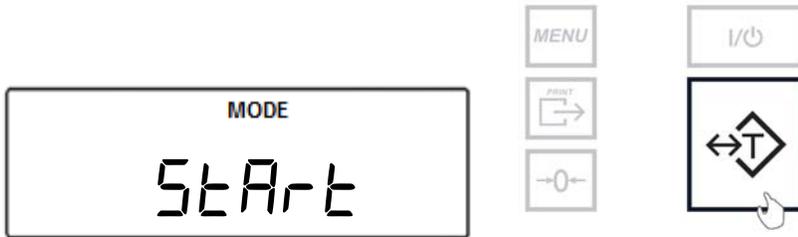
**Note: The firmware update process should be started using the firmware update option on the scale first and then continued immediately after using the firmware update on the PC.**

Follow these steps to update the scales firmware:

1. To update the firmware, press the Menu key. Select “Firmware” by pressing the T key.



2. Select “Start” by pressing the T key.



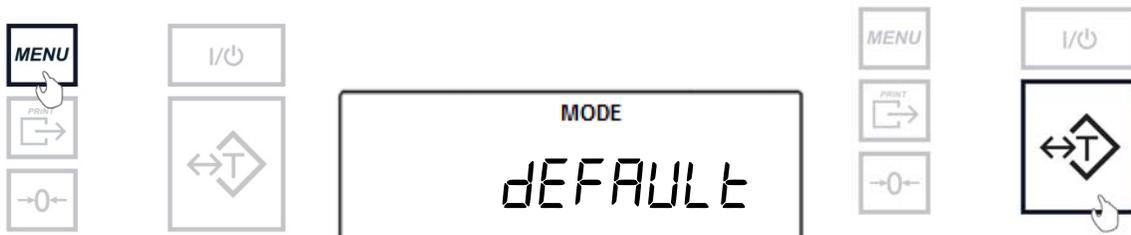
# Chapter 14: Restoring Default Settings (dEFAULT)

The scale can be restored to its factory settings. This process will return the scale to its original configuration.

**Note: All saved data/settings in the scale will be lost when defaults are restored.**

Follow these steps to restore default settings:

1. To restore default settings, press the Menu key. Select “dEFAULT” by pressing the T key.

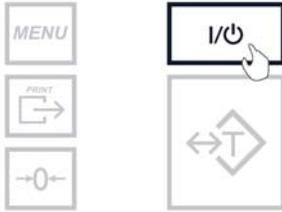


2. Select “YES” to restore the default settings or “nO” to continue with the current configuration. Confirm the selection by pressing the T key.



## Chapter 15: Weighing

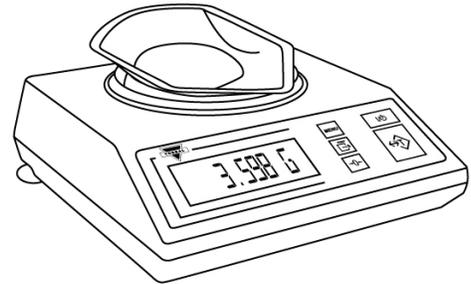
1. To begin weighing, press the power button to turn the scale ON. The scale will go through its initialization procedure and automatically enter Weighing Mode.



2. Wait for the stabilization indicator to appear.

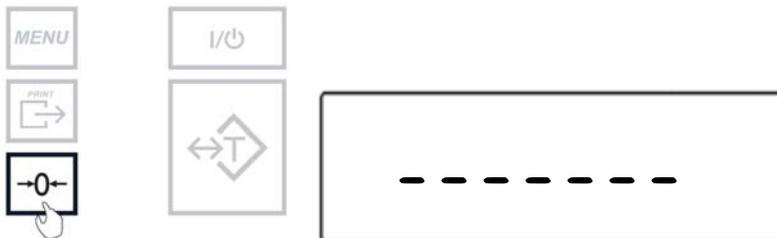


3. When weighing, always place the mass in the middle of the pan. The weighed result may be taken when the stabilization indicator reappears on the display.



### 15.1 Zeroing the Scale

1. The scale is armed with the Auto Zero Setting Mechanism (AZSM). AZSM automatically maintains a center of zero condition within +/- .5d or 5mg.
2. The scale may be re-zeroed manually to obtain a new center of zero. To re-zero the scale manually with a weight that is out of the AZSM range, make sure the weight and the stabilization indicator are shown on the display.
3. Re-zero the scale by pressing the zeroing key.





- When finished re-zeroing, the scale will return to Weighing Mode and the display will indicate “0”. A new center of zero has been set, and the scale is ready for weighing.



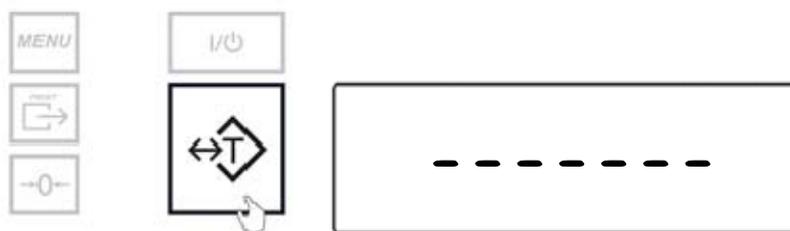
**Note: Re-zeroing the scale will reduce the capacity of the scale by the re-zeroed weight. The remaining capacity is displayed as a percentage on the right side of the display.**

### 15.2 Taring the Scale

- If a container is used for weighing, it may be tared. In taring the container, the scale subtracts the weight of the container from the gross weight to obtain the net weight.
- To tare the weighing container, place it in the middle of the pan. The container’s weight will be shown on the display.



- Once the stabilization indicator appears on the display, the container is ready to be tared. To tare the container, press the T button. The display will show a dotted line indicating that the scale has begun the taring process.



- When finished taring, the balance will return to Weighing Mode. The display will indicate “0”, and the NET indicator will be shown on the display signaling the next weight taken is a NET result.



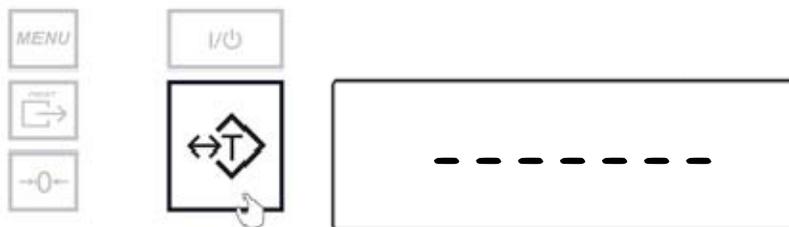
**Note: Do not touch or move the scale during the taring process.**

### 15.3 Clearing the Tare

1. To clear the tare, remove the tared object along with the NET weight from the pan. The scale will then display a negative NET tare result.



2. To clear the tare, press the T button. The display will show dotted lines, indicating the tare is clearing.



3. When finished clearing the tare, the scale will return to Weighing Mode.

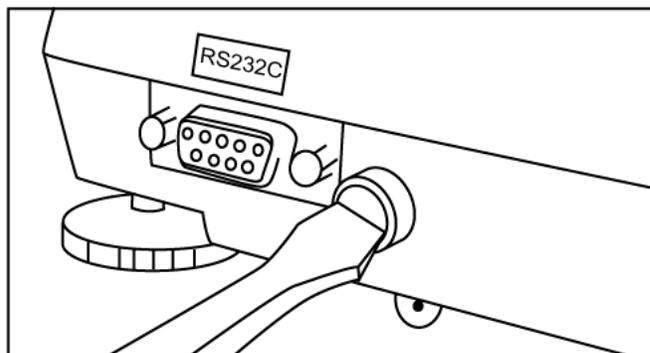


## Chapter 16: Sealing the Calibration Switch

Depending on individual state law, the calibration feature of the scale may be required to be sealed by an NIST/NTEP official. To seal the calibration feature, follow the instructions below. The scale can be sealed in two ways by using either a paper seal or a wire seal.

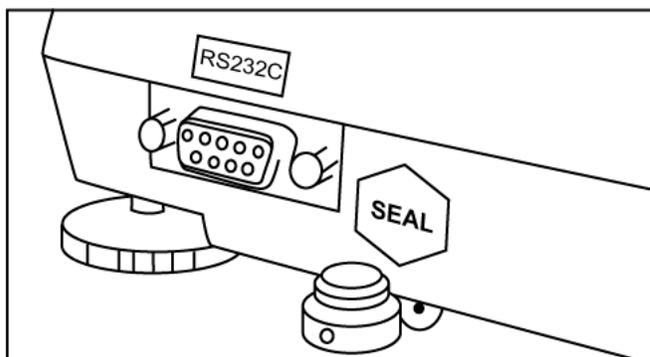
### Paper Seal:

1. To seal the scale using a paper seal or a sticker, use a flathead screwdriver to gently remove the calibration wire seal screw located in the rear of the scale.
2. Once the wire seal screw has been removed and the calibration switch exposed, gently insert the flush sealing screw provided with the scale in the place of the wire seal screw.



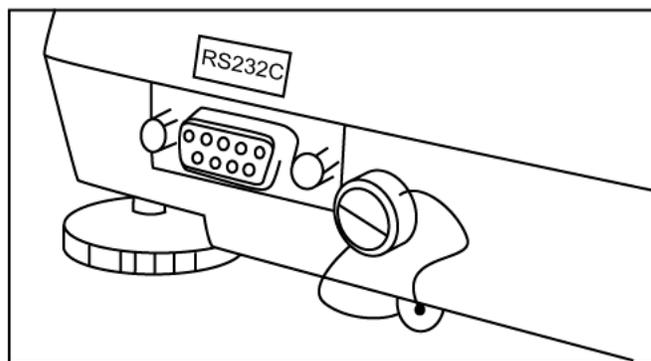
**Warning: Do not attempt to screw the flush sealing screw all the way in. Stop when the screw is flush with the casing of the scale.**

3. Once the flush sealing screw is in place, apply the paper seal over it, so that it completely covers the flush screw.



### Wire Seal:

1. To seal the scale using a wire seal, insert the wire into the opening of the calibration wire seal screw.
2. Insert one end of the wire through the opening in the fixed rear foot located underneath the scale.
3. Bring both ends of the wires together and close the wire loop with a seal. Do not attempt to remove the calibration screw as it will rip the wire and break the seal.





## Chapter 17: Maintenance

### Cleaning and maintaining your Prescription Scale:

- Before cleaning the scale always unplug the A/C adapter from the electrical outlet.
- Use a soft, slightly damp cloth to clean the exterior housing of your scale.
- Wipe the scale gently. Do not allow any liquid to enter into the scale.
- Do not apply extensive pressure to the LCD display.
- Do not use chemicals or benzene when cleaning the surface. Corrosive chemicals may damage the finish.
- Alcohol may be used only to clean the scale's stainless steel pan or the draft ring.

## Chapter 18: Accessories

| Description           | Part No. |
|-----------------------|----------|
| Draft Shield Cover    | 301086   |
| Dust Cover            | 301056   |
| RXP-4 Thermal Printer | 301060   |
| RS232 PC Cable        | 301058   |

## Chapter 19: Replacement Parts

| Description         | Part No. |
|---------------------|----------|
| A/C Adaptor         | 301054   |
| Pan (115mm)         | 501094   |
| Pan Base            | 501095   |
| RS232 Printer Cable | -        |
| Scanner w/ Cable    | 301050   |



## Chapter 20: Limited Warranty

### PURCHASER'S 12-MONTH WARRANTY

Warranty is valid only if the attached warranty registration card is completed and returned within 30 days.

This product is a precision device made to exacting standards of scientific accuracy. It is guaranteed to have been adjusted and inspected for proper workmanship and performance, and certified for its currently advertised specifications before shipment.

Fulcrum Products are warranted against defects in material and workmanship under normal use and service. This warranty is extended only to the first purchaser. This limited warranty will not apply if, upon inspection, it is found that the product was tampered with, misused, overloaded or abused, mishandled, placed in an improper environment, improperly installed or adjusted, used for a purpose other than that for which it was designed, or repaired by unauthorized personnel.

Fulcrum's liability under this warranty is limited to furnishing labor and parts necessary to remedy the defect covered by this warranty and restore the product to normal operating condition. Purchasers may be charged a minimum repair fee for in-warranty products returned for repair if those products are determined to be problem free. To make a claim under this limited warranty, obtain an RMA number from Fulcrum and return the product, carefully packed in its original packaging, shipping prepaid, with the RMA number written on the return package.



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