

OWNER'S MANUAL

ELECTRONIC INDICATOR WI



WI SERIES

BEFORE OPERATING THIS SCALE, PLEASE READ THIS MANUAL THOROUGHLY.

REV 1.1 CODE: 1310/0516



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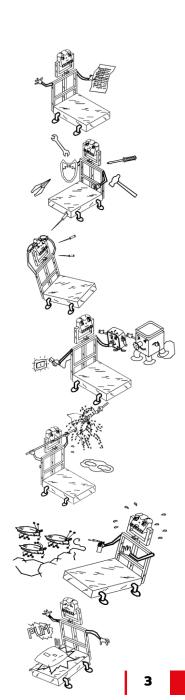
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INTRODUCTION

The Torrey wi indicator is part of the wide range of Torrey products, as industrial scales, receiving labelings, truck, receiving, counter, etc.

IMPORTANT WARNINGS

- In case have problema with the scale, firts read the warranty condiction.
- 2. Do not open the scale on your own. Your warranty will be canceled.
- 3. Never prees the keyboard wiht object such as pencils, pens, knifes, etc.
- Use a Vac outlet exclusive for the scale. Avoiding overload or voltaje variations.
- Never wash the scale using a flow of wáter. This can damage the electronic components. For more information read "Maintenance and cleaning" section.
- 6. Protect the scale from insects (mainly from roaches), they can seriously damage to electronic components. Use solid products againts roaches.
- Do not drop or hit the scale with nthe product to be weighted because as time goes by it will damage the weight sensor.





8. Do not use solvents or detergents for cleaning only use damp rage.



9. Do not place fans or heaters directed towards the scale.



Do not place the scale where there is a lot of moisture and/or dust.



11. Only autorized and qualified personnel should check and repair your scale.





IMPORTANT!

Battery should be recharged for 10Hrs before using the scale for the first time.

WARNING!

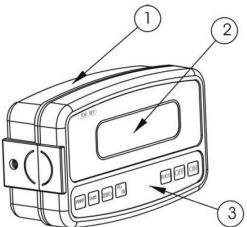


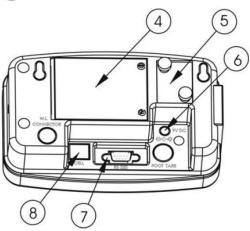
Do not open the scale

Caution: to reduce the risk of short circuit in your scale, do not remove the cover or sustitute any of the parts for others that are not original only authorized distributor..



- 1.-Cabinet:
- 2.- Display: show the weight
- 3.- Membrane keyboard
- 4.- Rechargeable battery lid
- 5.- Security seal: used for calibrate the scale. Only for only authorized personnel
- 6.- Jack: connection for the ac/dc power supply
- 7.- DB9 connector: sends the weight to a printer of pc, using RS-232
- 8.- Cell connector: receives the weight sensor information





MEMBRANE KEY BOARD





Turn off the scale



Turn on the scale



Turn on/off the backlight



Switch units between kg and lb



Send the current weight, shown on display, to a pc or printer using rs-232 serial communication.



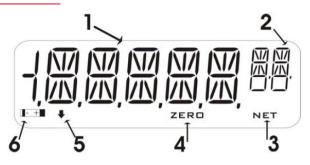
This key adjust to zero the initial reference, you can use it when you want to eliminate a weight permanently. Also it is possible to have a weight displayed with out having any weight on the plate. Press the zero key to take a new zero reference.



You use this key when you wish to weight a product in a container but you do not want to consider the containers weight. Place the container over the scale and press the tare key, in this moment the display shows zero weight and the net indicator stands "on". Now the scale shows The net weight. If the tare weight is removed the display shows the tare weight with a negative sign, to exit from this mode remove all the weight On the scale and press the tare key again

Note: the tare and zero key are subtractive from the maxim capacity, for example if you have a 50 kg scale and you tare or zero 5kg, the maximum weight that you can weight is 45 kg

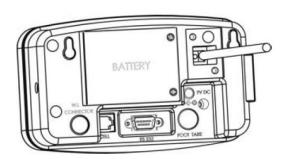




Weight section: it shows the weight of the product.	4. ZERO INDICATOR : TURNS ON WHEN THERE IS A ZERO BALANCE CONDITION
2. Unit weight section: it shows the unit weight kg or lb	5. AC/DC POWER SUPPLY INDICATOR: TURNS ON WHEN THE AC/DC ADAPTOR IS CONNECTED
3. NET INDICATOR: TURNS ON WHEN THE NET WEIGHT IS DISPLAY	6. LOW BATTERY INDICATOR: TURNS ON WHEN THE BATTERY NEEDS TO BE RECHARGED

CONFIGURATION OF THE MODULE

The capacity of the indicator WI can be determinate by the user. The maximum capacity can be programmed from 1kg TO 10 TONS. The configuration method must be realized by authorized personnel only. In order to configure your indicator, turn on your scale an press the push button while the count down.



1.The display will show the message "conf". Press the backlight key

- 2. The display will show 0 kg. introduce the máximum capacity (note 1). press the key backlight to accept.
- 3. The display will show a minimum division. The indicator calculates the minimum division allowed for each capacity. press tare key and zero key to move among the division. Now press backlight.
- 4. THE DISPLAY WILL SHOW Økg. Introduce the calibration weight (note 1). The closest you calibration weight is to the full scale capacity, the best accuracy you will archive. Press backlight to finish
- 5. Your indicator has been configured. Now it's necessary to calibrate it. If you do not calibrate your modul, it won't work correctly.

To introduce the máximum capacity or the calibration weight, follow the next steps. Press tare to increase the value of the fist digit and zero to decrease it. Press kg/lb to move this value to the left. Example: if you wish to configure the indicator to 150 kg

FUNCTION	DISPLAY
Tare	1 kg
Kg/lb	10kg
Tare * 5	15kg
Kg/lb	150kg
Backlight	Accept value



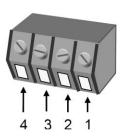
HOW TO CALIBRATE THE INDICATOR

Once that you have configured you indicator it's necessary to calibrate it.

- Press the push button while the countdown.
- The indicator will show the message "conf" press the zero Key. The indicator will show the message "cal" press the backlight key.
- The indicator will show the message "ref O" make sure that the platform is unloaded and stable. Press the backlight key
- The indicator will start a count down from 0 to 5. If it is unstable an "unstable" message will appear
- The indicator will display "Load". Load the scale with calibration weight, defined in the configure section, and press the backlight key
- The indicator will start a count down from 0 to 5. If it is unstable an "unstable" message will appear
- The indicator will show the message off. The indicator has been calibrated.

HOW TO CONNECT THE LOAD CELL

Identify the load cell harness. Hold the terminal with the screws facing up, identify the load cell cables, and screw them down to the terminal according to the following diagram



FUNCTION	DISPLAY
1	+ EXITATION
2	- EXITATION
3	+ SIGNAL
4	- SIGNAL

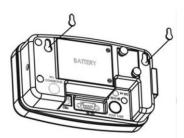
Note:

- In case the weight sensor have a shield, connected to #4.
- If you wish to connect from 2 to 4 load cells of 350 ohms, is necessary a sum board. (Contact to your authorizedDistributor)



FIXING THE INDICATOR TO THE WALL

It is possible to fix the indicator to the wall. Simply cut the holes for the screws as it's show in the picture.



DEMO SOFTWARE SERIAL COMMUNICATION WITH THE PC

We have developed software that you can use to see the sent weight by the scale in the computer screen.

- 1.- Enter to our website http://www.torrey-cloud.com/downloads/
- 2.- In the support area, enter to Software and manuals section
- 3.- In scale software, enter to disk and the software scale. Exe will download automatically.

TECHNICAL SPECIFICATION FOR THE SERIAL PORT

- 1.- Asynchronous communication Baud rate 9600
- 2. Sign of polarity.

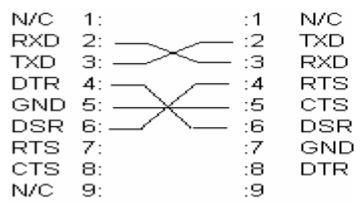
Rs-232: mark: 1 lógic (-3vcd a -12 vdc).

3. - Word length and sequence of bits:

MARK	SPACE	b0	b1	b2	b3	b4	b5	b6	b7	Stop Bit
Sta	rt Bit									

4. - Serial cable configuration DB9/DB9:

Connections of serial cable



DATA FORMAT FOR THE PC

INFORMATION IN ASCII CODE:

	Text Section	Weight Section	Unit Section	Status Section	
English	N E T :: T A R E :: G R O S S :: W E I G H T :	- # # # . # # #	k g l b t t o n	Z M	CR
Spanish	N E T O : T A R A : B R U T O : P E S O :	- # # # . # # #	k g l b t c n	Z M	CR



POWER OFF TIME FUNCTION

This function is active when the scale is working without the ac/dc power supply. If the scale is not used for a period of 15 minutes, it Will automatically turn off.

THE RECHARGEABLE BATTERY

When the display shows the low battery indicator, the Battery needs to be connected to the ac/dc power supply in order to be recharged. It is possible to continue operating the scale for a short period of time, but after short time the signal "low bat" appears and the scale turns Itself down. In order to recharge the battery connect the ac/dc power supply for 10 hours and turned off the scale. The battery can operate Continually for 12 hours, with out using the backlight.the charging capacity of the rechargeable battery decreases with each cycle. If the scale does Not turn on after recharge the battery. It is time to replace the battery.

MAINTENANCE AND CLEANING

- A. One of the greatest advantages of purchasing this scale model is requires Minimum maintenance and it is very simple to mantain in favorable conditions.
- B. Do not use a flow of water to clean your scale. Use a damp rag and clean each of Its components daily: plate, cover, keyboard.
- C. To remove oil and greasy substances, use a dry and clean rag, rubbing the dirty area several times.
- D. Regularly check the scale to assure it is correctly leveled with its four bases well supported.
- E. When you clean the scale make sure are not any papers, or any other kind of material under the plate or under the plate-holder that could obstruct the proper operation.
- F. Do not use detergents nor corrosive liquids while cleaning.
- G. Do not move your scale around. Constant movement can cause strokes that damage it.
- H. Do not expose your scale to temperatures below -10 °c (14 °f) or above 40 °c (104 °f).

TROUBLESHOOTING GUIDE

Before you call for service to your authorized distributor, check this manual again to avoid a misunderstanding.

PROBLEM	POSSIBLE CAUSE	SOLUTION
	THERE IS NOT ELECTRIC CURRENT.	WITH A MULTIMETER CHECK THE CURRENT OUTLETS.
THE NOT OPERATE	AC/DC POWER SUPPLY CABLE HAS A FALSE CONTACT.	CHECK THE AC/DC POWER SUPPLY TERMINALS, IF IT IS POSSIBLE, CHECK WITH ANOTHER AC/DC POWER SUPPLY.
	LOW BATTERY.	CONNECT THE AC/DC POWER SUPPLY IF OPERATES, THEN REPLACE THE BATTERY.
THE SCALE SHOWS DIFFERENT WEIGHTS WITH THE SAME WEIGHT	MATERIAL OBSTRUCTING THE CORRECT MOVEMENT.	CHECK IF EXISTS MATERIALS UNDER THE PLATFORM. IF SO, REMOVE THEM AND CHECK THE OPERATION AGAIN.
THE WORD "HELP" APPEARS IN THE DISPLAY	THE SCALE WAS TURNED ON WITH A BIG WEIGHT ON THE PLATE.	REMOVE THE WEIGHT AND TURN OFF THE SCALE AND THEN TURN ON IT ON AGAIN.
"UNLOAD" MESSAGE APPEARS ON DISPLAY	WEIGHT BIGGER THAN 20 % OF THE LOAD CELL CAPACITY ON THE PLATE.	REMOVE THE WEIGHT OF THE PLATFORM OR LOAD CELL AND TURN "ON" THE SCALE AGAIN

NOTE

IN ORDER TO TAKE A NEW ZERO REFERENCE, IS NECESSARY PRESS THE KEYS KG-ZERO-BACKLIGHT DURING THE COUNTDOWN FROM 5 TO Ø. THE SCALE WILL SHOW THE MESSAGE "RZERO". PRESS THË BACKLIGHT KEY, THE INDICATOR WILL STARTA COUNTDOWN FROM 5 TO Ø. IF IT IS

UNSTABLE WILL SHOW THE MESSAGE "UNSTAB". THE INDICATOR WILL SHOW Ø WEIGHT ANDIT WILL BECONFIGURED WITH THE NEW ZERO REFERENCE:

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TECHNICAL SPECIFICATIONS

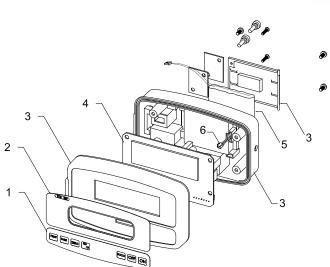
Model WI

Max. Cap. 1kg – 10t
Min. Div. Variable
Max tare variable
Input volatage 9vcc 500ma
Recargable battery 6v 0.5ah
External resolution 8,000 div
Internal resolution 32,000 div
Rate of samples 3 samples / second
Display area 3.650" x 1.000
Operation temperature range 14°f A 104 °f
Storage temperature range -4°F A 122 °F









- 1. KEYBOARD. 2. OVERLAY 3. WI (CASE)
- 4. MASTER BOARD 5. 6V BATTERY 6. BATTERY ARNESS

ADDITIONAL DATA

The serial number of this product can be found in the register plate under the scale. We suggest you that write the serial number and the scale model in the following spaces and hold them as proof of your acquisition and as identification in case of loss or to future request.

Distributor
Address
Telephone number
Purchase date
Purchase date
Serial number

We reserve the right to change any specification contained in this text without prior notice.



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