i-Weight

- Acquistion and Statistics analysis Software for Balances –

Software version 2.0 (V8)

User Manual

Manual edition: 10/10/2017 rev.0
Converter model FTDI

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1. What is and what it does

i-Weight is a Windows based software able to manage connection of the balance with a Computer.
It allows the acquisition of weight data from the balance through RS232 serial interface. Serial port parameters configuration is simple, and it is permanently memorized for any further software utilization.
Different **weighing modes** are available:

- Simple weighing
- Kinetics
- Tare-gross-net
- Percentage
- Density calculation
- Pieces counting
- Threshold
- Multiplication for a constant
- Textile titer
- Volume calculation

At every weighing operation a real time **statistical analysis** is performed on acquired data, with the real-time determination of:

- total value
- mean value
- standard deviation
- maximum value
- minimum value

All the obtained data, statistical analysis included, can be saved in a format directly exportable to Excel, date and time and a completely personalizable header are automatically added to the data file.
It is possible the direct data printing (complete of header and statistics) with a generic Windows printer or with the thermal printer model TLP50 (optional, ask to your reseller).

i-Weight allows to visualize graphs of all the obtained data, with the statistical mean overimpressed (please refer to the relative paragraph of this user manual).

There is the possibility to use a virtual keyboard that allow the remote control of the balance keyboard (please refer to the relative paragraph of this user manual).

2. Requirements

Supported Operating System: Windows 7/8/10 (32-64bit)
RAM: at leat 1GB.
HDD: at least 500MB
USB port: at least 2.0
CD-ROM drive

IMPORTANT NOTICES

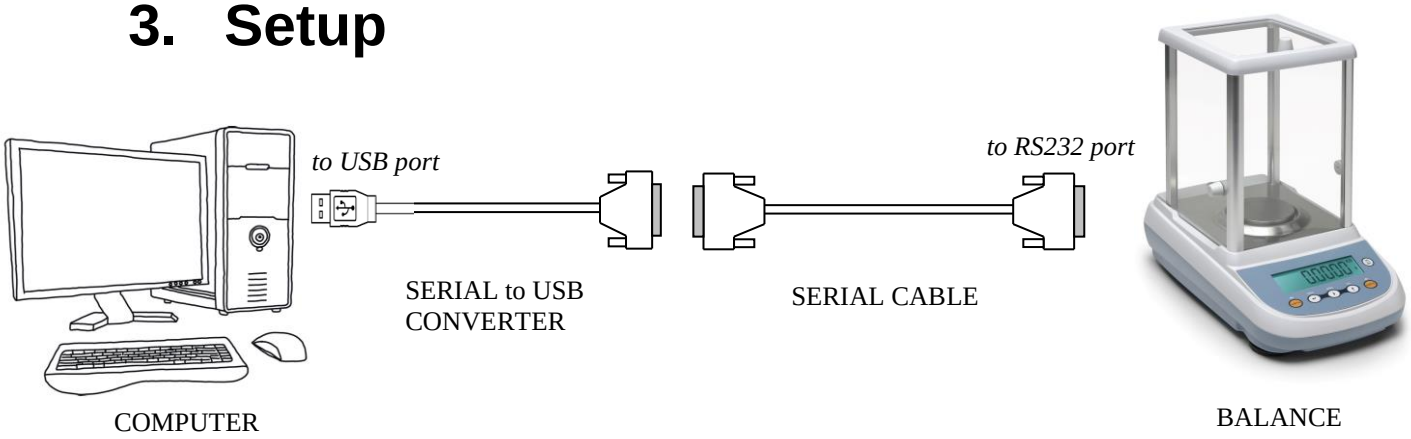
i-Weight software is not compatible with all balances models, please refer to your distributor/reseller in order to know if your balance model can be used with i-Weight software.

PLEASE READ ALL THIS MANUAL BEFORE USING THE SOFTWARE

What you find in the box ?

- CD with i-Weight software and converter drivers
- Serial cable (9pin/9pin)
- RS232 to USB converter
- i-Weight User manual (as pdf inside the CD)
- Setup quick guide (as paper)

3. Setup

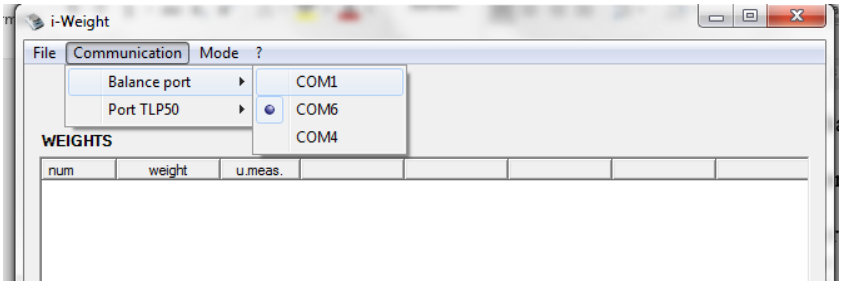


A) On the balance (follow exactly these steps):

1) Switch on the balance. When display shows zeroes, press and keep pressed MENU button until sound stops, then release the button. Press again MENU button until PC-PRTR message is shown, then confirm by pressing PRINT button. Press the MENU button until the "**PC Cont**" message is displayed. Press PRINT button to confirm this choice.
2) Now press again MENU button and the message "Baud rT" is displayed. Press now PRINT button to confirm. Now, using MENU or CAL buttons select the value of **9600**. Confirm this value by pressing PRINT button. After this, press the ESC (on/off) button on the balance keyboard to return to weighing mode
3) Connect the USB plug of the converter to the USB port of your computer
4) Connect the serial cable to the serial port of the balance (in the rear side)
5) Connect the RS232-to-USB converter to the serial cable

B) On the computer:

6) Switch-on the computer and insert the CD in your computer CD-ROM drive, browse it and go inside "CONVERTER DRIVERS" folder. To install drivers of the RS232-to-USB converter click *dpinst-amd64.exe* file if your computer OS is 64-bit or click *dpinst-x86.exe* if 32-bit. Wait for the installation of converter drivers is succesfully finished [Windows 10 may already contain drivers to work with converter, so drivers installation from the CD is not required].
7) Select the "i-WEIGHT SOFTWARE" folder of the CD and copy it into the Programs folder of your computer
8) Now start i-Weight from your computer folder, just click *i-Weight.exe* file
9) Software opens. On Software main window select "Comunication" menu, then "Balance Port" sub-menu (see image below) and select the right COM port number that your computer has associated to the serial-to-usb converter during installation of drivers.



10) Press WEIGHT button on software main window to verify the data is properly acquired by the software. Setup is finished.

➢ *If you meet problems or get error message, please refer to the troubleshooting paragraph of this manual.*

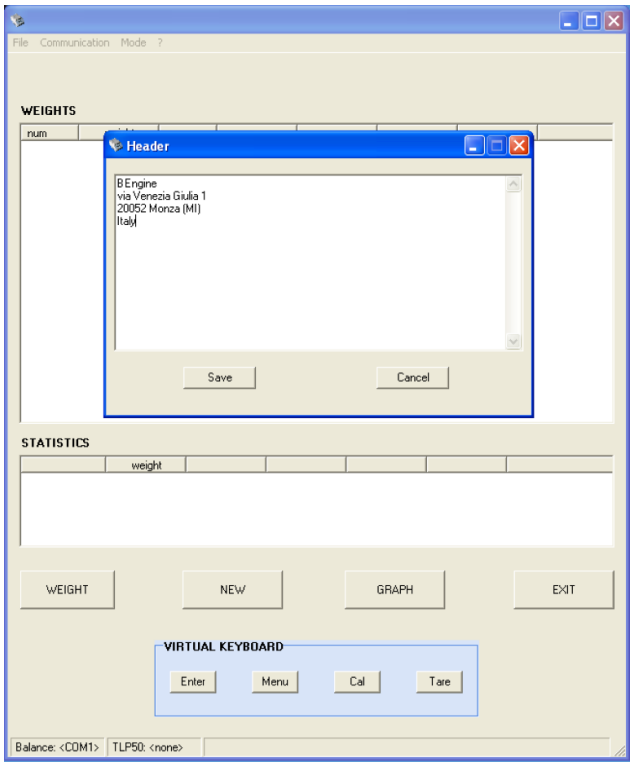
Commands

File Menu

- Header
- Save As...
- Print…
- Exit

Header

Opens the "Header" window where it is possible to insert a customized header to be added to the data file. Date and time of the measure are automatically added to every file saved.
Once added or modified the header, click the "Save" button and the current header is saved and used for every file created from that moment on, till a new modify. The header is permanently stored so it does not need to be reinserted at every software start, until, of course, you decide to change into a new one.



Save As…

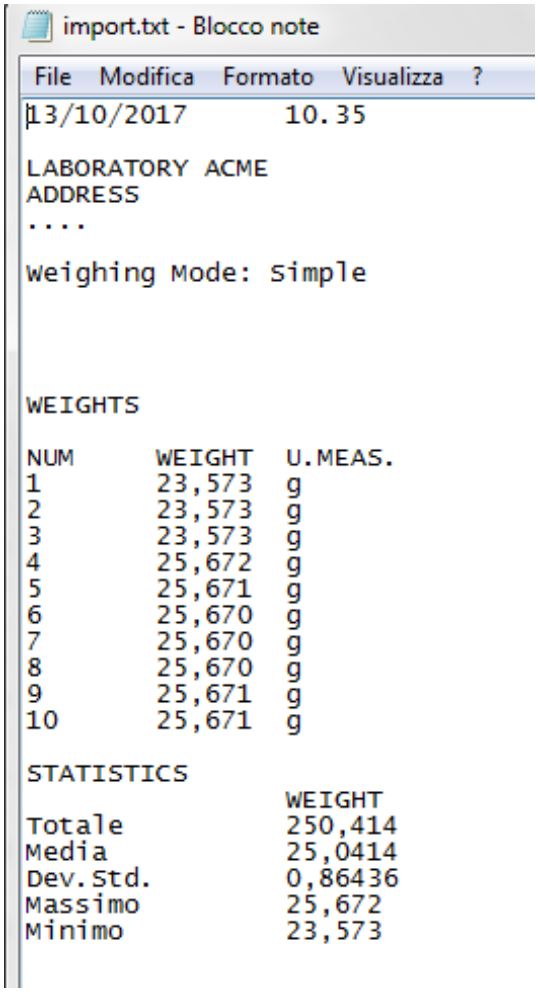
Saves data in the "Weights" list and statistics in the "Statistics" list in a **Excel** file (.xls/.xlsx) or text file (.txt). File name and location can be chosen in the dialog window that opens after you click on "Save As…".
Date and time are added, the header inserted is the one stored in the "Header" window, the parameters of the measure are according to the chosen weighing mode and the currently visualized statistics are automatically added to weights data in the file created.

Examples are showed in the images below:

SAVE AS EXCEL FILE (.xls/.xlsx)

	A	B	C	D
1	Date: 13/10/2017		Time: 10.35	
2				
3	LABORATORY ACME			
4	ADDRESS			
5	....			
6				
7	Weighing Mode:		Simple	
8				
9	WEIGHTS			
10	NUM	WEIGHT	U.MEAS.	
11	1	23,573	g	
12	2	23,573	g	
13	3	23,573	g	
14	4	25,672	g	
15	5	25,671	g	
16	6	25,67	g	
17	7	25,67	g	
18	8	25,67	g	
19	9	25,671	g	
20	10	25,671	g	
21				
22	STATISTICS			
23		WEIGHT		
24	Total	250,414		
25	Average	25,0414		
26	Dev.Std.	0,864357		
27	Maximum	25,672		
28	Minimum	23,573		
29				

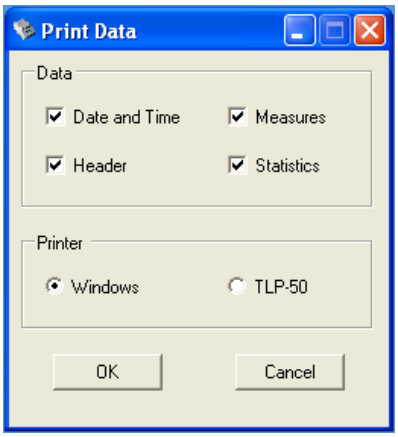
SAVE AS TEXT FILE (.txt)



If you save as .txt, the text file can also be directly imported in Excel. To perform **Excel importing**, open Excel application, choose "Open…" from the Excel "File" menu, in the "Open" window select "Text File" in the "File type" field and open the file saved with I-Weight. Check if "Delimitate" and "Tabulation" are selected in the "Guided Text Import" window, then click "End".

Print

Performs direct data printing.
The "Print Data" window is visualized, the selection of data to print can be performed: date and time, header (as inserted in the "Header" window), all the measures and statistics. Only the data selected in this window will be printed.



In the “Print Data” window it is possible to select the kind of printer where to send the data. Choose “Windows” to use a Windows printer connected to the PC, then click “OK” and it will be visualized the printer window where the preferred printer can be chosen among the installed.
If the TLP50 printer (bought togheter to the balance from your reseller) should be used, check the connection of this printer to the PC through a serial port (or USB-to-RS232 adapter), plug in the printer to computer and check if the selected port for the printer, reported in the status bar of i-Weight, is correct. It is necessary that the TLP50 printer is not configured as a Windows printer. That means that if the Windows drivers of this printer have been installed and the printer have been inserted in the system printers, it is necessary to open the “Printers and fax” windows in the Windows “Start” menu, select the printer and choose “Delete Printer”. When the printing operation with i-Weight is finished it is possible to reinsert the printer in the Windows list reinstalling the printer with the “Keep existent driver” option.

Figure 1 TLP-50 serial printer

Once verified that the printer is correctly connected to the PC, choose the option “TLP50” in the “Print Data” window and click “OK”, the data will be transmitted to the printer.

Exit

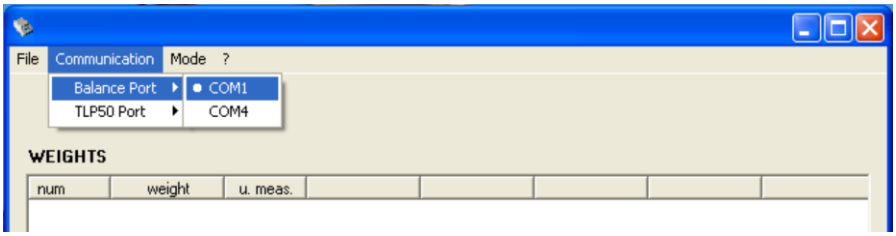
Exits from the application eventually ending running kinetics. On exiting serial port settings, measure mode and header are saved.

Communication Menu

- Balance Port
- TLP50 Port

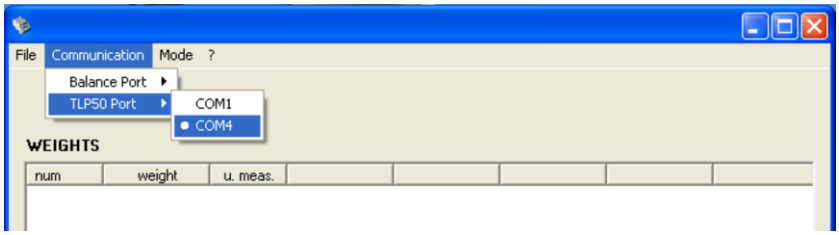
Balance Port

I-Weight checks automatically on starting the serial ports of the PC and lists them in this menu. At the first start of i-Weight after the setup and every time the connection port of the balance is changed, it is necessary to set the correct port where the balance is connected. The current selection is shown in the status bar at the bottom of I-Weight window and it will be permanently stored even after the application quitting.



TLP50 Port

This menu allows the selection of the printer connection COM port, so the printer can be recognized during printing operations. The TLP-50 printer can be connected directly to a serial COM port of your computer or to a USB port of your computer (through another serial-to-USB converter, optional). If no serial port is selected for TLP50 printer, the printing option “TLP50” in the “Print Data” window will be disabled (refer to “File” Menu). I-Weight checks automatically on starting the serial ports of the PC and lists them in this menu. At the first start of i-Weight after the first setup and every time the connection port of the printer is changed, it is necessary to set the correct port number where the printer is connected. The current selection is shown in the status bar at the bottom of i-Weight window and it will be permanently stored even after the application quitting.

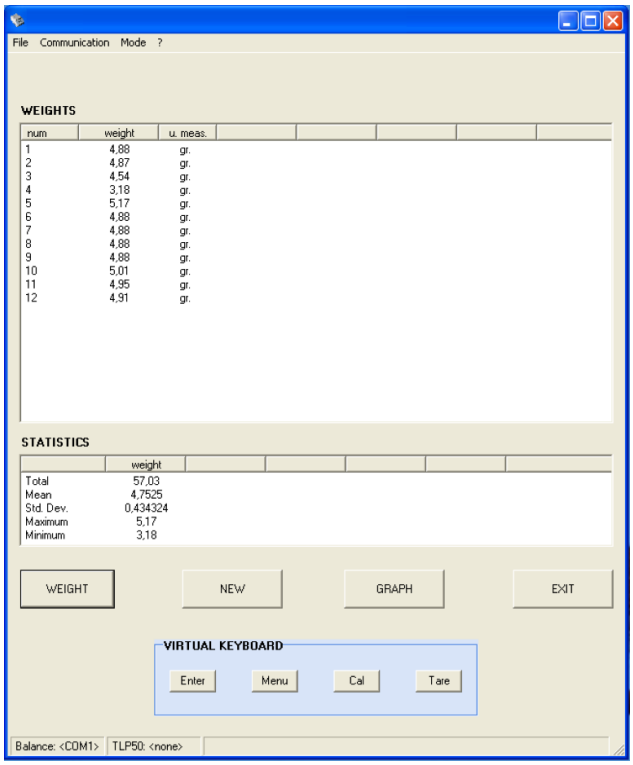


Mode Menu

- Simple
- Kinetics
- Tare
- Percentage
- Density
- Count
- Threshold
- Constant
- Textile
- Volume

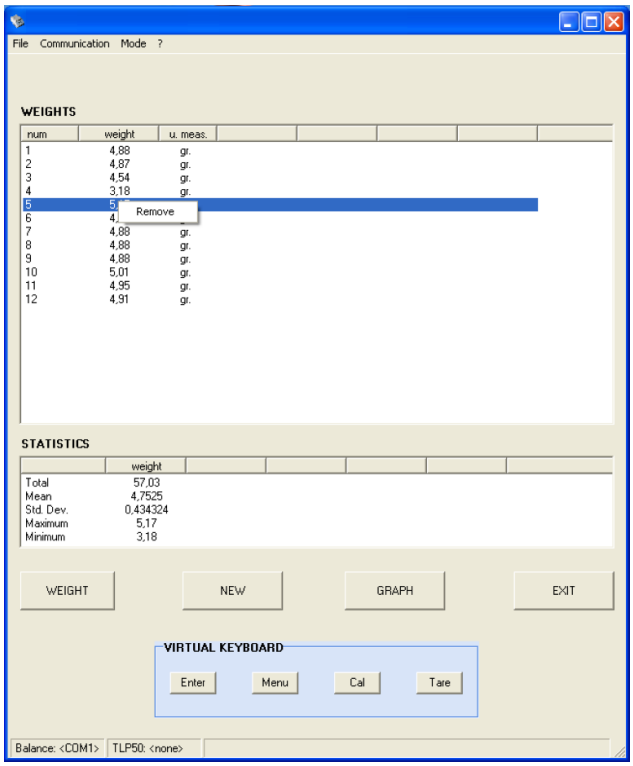
Simple

Simple weighing mode. Connect the balance to the PC according to "Setup" section of this manual, setup the balance in operating conditions (refer to instrument user manual) and load the sample to be weighed on the balance pan. Click the "WEIGHT" button and the weight is acquired and visualized in the "Weights" list, with an increasing number (the "num" field) and the current weight unit set in the balance menu (the "u. meas." field). At every click of "WEIGHT" button a new data is acquired and added to the list.
In the "Statistics" list total weight, mean, standard deviation, maximum and minimum of the acquired weights are visualized in real time (refer to "Statistics and Graphs" section of this user manual). The "NEW" button cleans the "Weights" list and starts a new measure session. The "GRAPH" button visualizes a graph of data (refer to "Statistics and Graphs" section of this user manual).



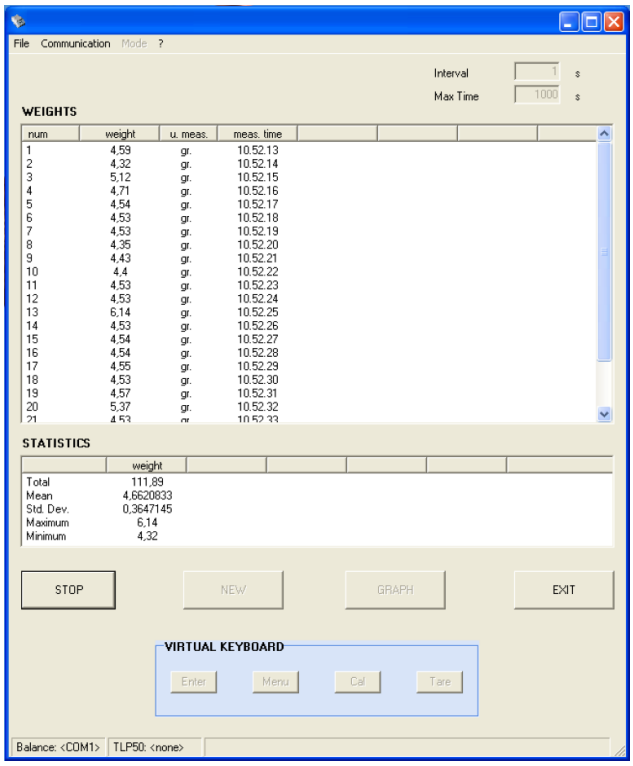
If the reading from the balance fails, in few seconds the error message “Not recognized data” will be visualized. Check the PC connection of the balance, if the balance is turned on, if the weight is visualized on the instrument display and if the settings of the serial port are correct. Once checked all these parameters click “OK” to close the error message window and retry the weight acquisition.

A single measure can be removed from the data list and from statistics: click once on the data to be removed and then right-click on it and select “Remove” in the contextual menu. The selected data will be removed from the list and statistics will be refreshed.



Kinetics

Allows to perform a **time kinetics**, acquiring weight values from balance at fixed time intervals. The time interval from a measure to the next one can be set in the “Interval” textbox, the value is expressed in seconds.
Connect the balance to the PC according to the “Setup” section of this user manual, setup the balance in operating conditions (refer to instrument user manual) and load the sample on the pan.
Once inserted the time interval, click “START” to start the measure session.



At every measure the acquired weight is visualized in the “Weights” list with an increasing number an the measure time. The “Statistics” list is refreshed in real time.

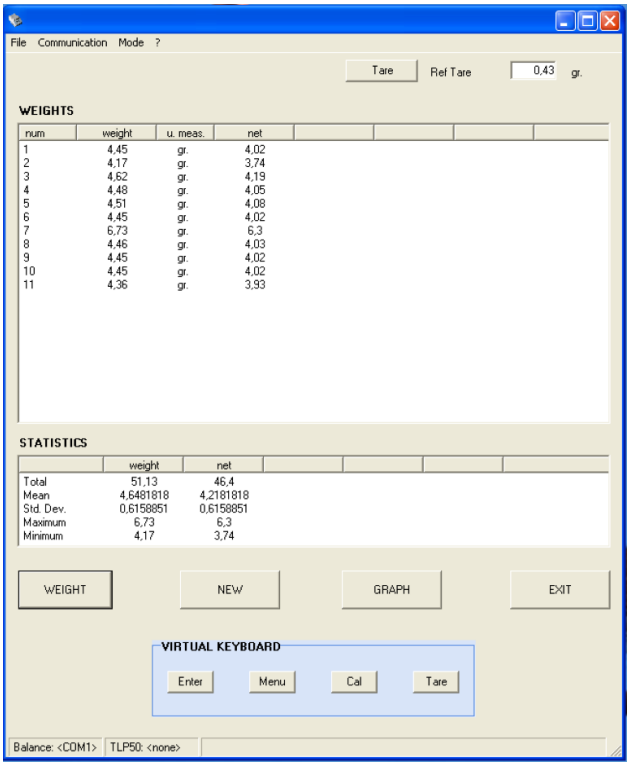
Note: during temporized acquisition it should not be performed any operation with menu commands or buttons because data acquisition can be compromised.

“NEW” and “GRAPH” buttons and the “Interval” textbox are disabled. The “EXIT” button is active and can be used if it is necessary to immediately exit from the program stopping the measures session.
When the measures session is finished, stop the acquisition clicking “STOP” button. “NEW” and “GRAPH” buttons activation shows that the measure session is successfully finished.
Once the measure session is finished it is possible to save data, remove uncorrected data from the list and visualize data graphs as in “Simple Mode”. It is possible to modify the time interval and restart the measure keeping the previous data. New measures are appended to the previous ones. To clean the “Weights” list click the “NEW” button.
If data from the balance cannot be read, in few seconds the error message “Not recognized data” will be visualized. Click “OK” to close the message window and click “STOP” to stop the acquisition. Check the balance and the serial port parameters as described for the “Simple Mode” case and click “START” to restart the acquisition.

Tare

Gives the net weight based on the calculation of a mean tare value or based on manually inserted tare value.
To perform tare measure, load the tare sample on the balance pan and click “Tare” button in i-Weight window. The tare data will be written in the “Ref. Tare” textbox with the current unit of measure of the balance. At every “Tare” button click a new tare measure is performed and the “Ref.

Tare" value refreshed. This data can be manually modified typing the desired data in the textbox. Pay attention to insert the data in the correct unit of measure.
Once the tare value is inserted, load the sample on the balance pan and click "WEIGHT" button. The weight of the sample is visualized in the "Weights" list with an increasing number, the measure unit set on the balance and the correspondent net weight. At every "WEIGHT" button click a new data is acquired and appended to the list. "Statistics" list is refreshed in real time.

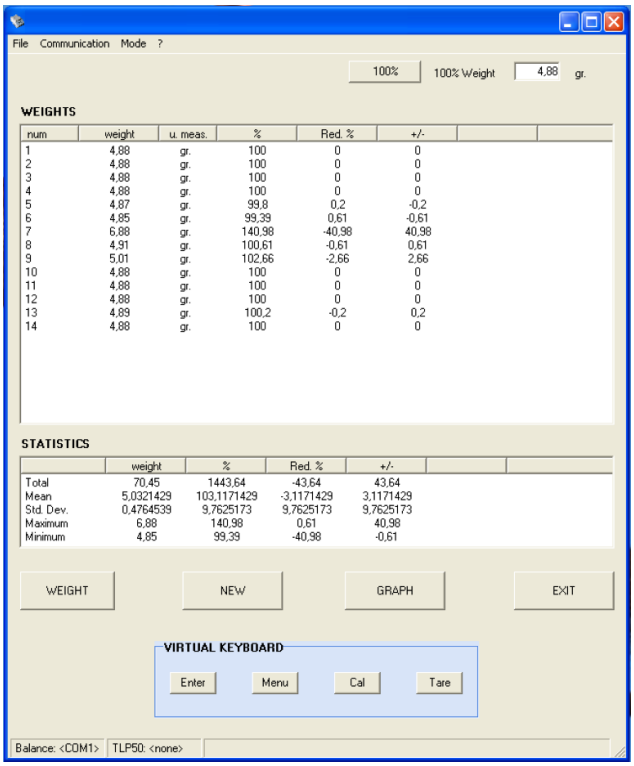


It is possible to save data, view the graph or remove data from the list (the whole row) exactly as in "Simple Mode". For "Statistics" list and "GRAPH" button refer to "Statistics and graphs" section of this user manual.
If data from the balance cannot be read, in few seconds the error message "Not recognized data" will be visualized, act as described in the "Simple Mode" section to solve the problem.

Percentage

Allows to read the weight value as a percentage of a reference weight. The reference weight, that represents the 100%, can be weighed or manually inserted.
To measure the reference weight, load the reference sample on the balance and click "100%" button. The measured weight is written in the "Weight 100%" textbox with the measure unit currently set on the balance.
At every "100%" button click the reference weight measure is repeated and the data in the textbox refreshed. This data can be manually modified typing the desired value in this textbox. Pay attention to insert the data in the corrected unit of measure.
Once the reference weight is set, load the sample on the balance and click "WEIGHT". The weight of the sample will be visualized in the "Weights" list with an increasing number, the unit of measure set on the balance, the percentage comparison with the reference data ("%" column), the percentage reduction ("Red.%" column) and the percentage difference ("+/-" column) from the

reference data. At every click of the "WEIGHT" button a new data is acquired and added to the list. The "Statistics" list is refreshed in real time.



It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in "Simple Mode". Refer to "Statistics and graphs" section for "Statistics" list and "GRAPH" button.
If data from the balance cannot be read, in few seconds the error message "Not recognized data" will be visualized, act as described in the "Simple Mode" section to solve the problem.

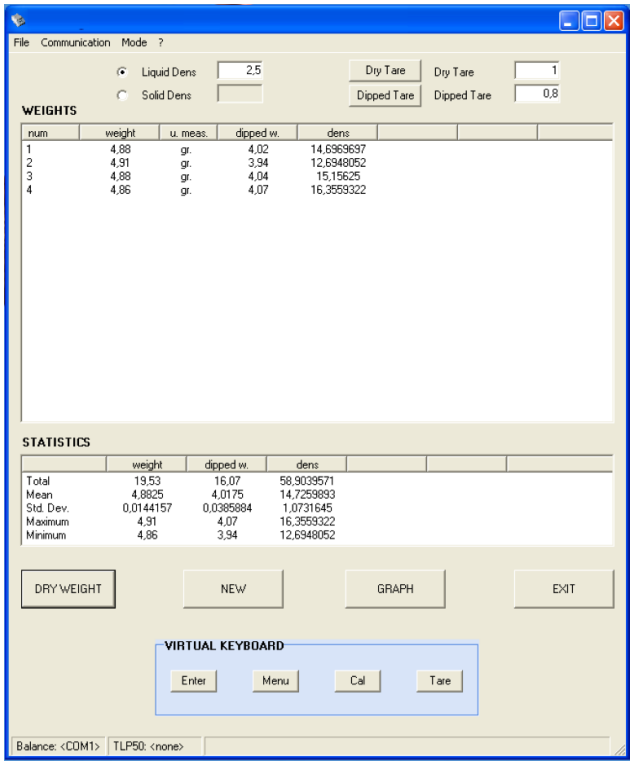
Density

Allows to calculate the density of a solid or liquid sample. To use this operating mode the balance must be setup to perform hydrostatic weighing (refer to instrument user manual).

NOTE: *The density of a (reference) liquid (usually distilled water) must be known if a solid density must be determined or the density of a (reference) solid (usually a glass plummet) if the one of a liquid must be determined.*
This is easily overcome using the optional Density (hydrostatic) kit supplied from your reseller, that contains all the necessary.

Click the checkbox of "Sold Dens." or "Liquid Dens." according to the known density and type the density value in the correspondent textbox. It is possible to perform the tare correction on the measured weight both dry and dipped. The tare values can be measured or manually inserted. To measure the tare values, load on the balance the dry tare sample and click "Dry Tare" button, the measured tare value is visualized in the textbox "Dry Tare", with the measure unit currently set on the balance. To measure the dipped tare load the tare sample on the balance in dipped mode and click "Dipped Tare" button, the measured tare value is reported in the textbox "Dipped Tare", with

the measure unit currently set on the balance. Both the dipped and dry tare value can be modified directly typing in the textboxes. Pay attention to insert the data in the corrected unit of measure.
If the tare correction is not required leave the two tare value at zero.
Once inserted the known density value and the tare values, the dry measure can be performed loading the sample on the balance in dry mode and clicking "DRY WEIGHT" button. The measured weight is reported in the "Weights" list with an increasing number and the measure unit currently set on the balance. Dip the sample and perform the measure in dipped mode clicking "DIPPED WEIGHT" button. The weight data is reported in the "Weights" list in the same row of the dry weight under the column "dipped w.", in the column "dens" there is the density value (solid or liquid) calculated. This value is in the same unit of measure of the one typed in the density textbox.

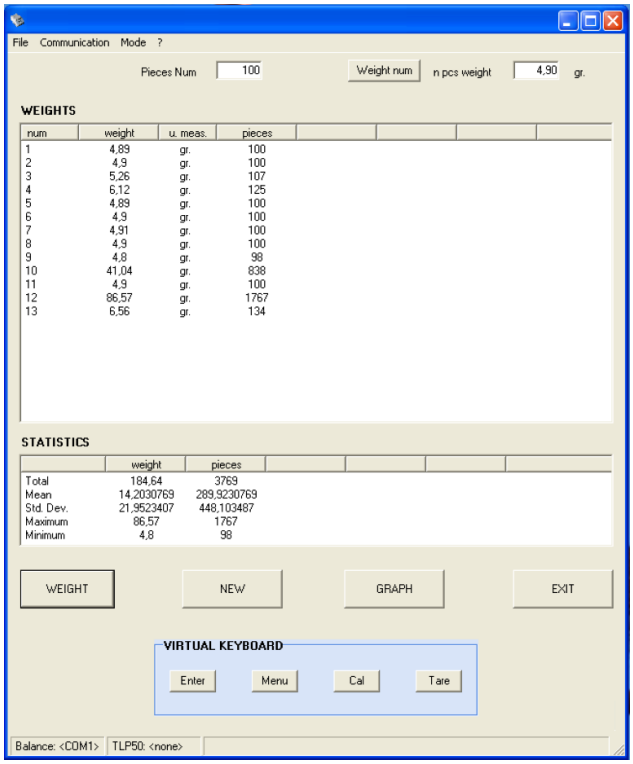


Click "DRY WEIGHT" again to perform a new measure, this measure will be appended to the "Weights" list.
It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in "Simple Mode". Refer to "Statistics and graphs" section for "Statistics" list and "GRAPH" button.
If data from the balance cannot be read, in few seconds the error message "Not recognized data" will be visualized, act as described in the "Simple Mode" section to solve the problem and go on with the weighing operation from the point of the error (dry or dipped weight).

Count

Calculates pieces counting. Before performing pieces counting it is necessary to weigh a known number of pieces or know the corresponding weight.
To weight a known number of pieces, load the pieces on the balance, insert the number of pieces in the "Pieces Num" textbox and click "Weight num" button. The weight will be reported in the "n pcs

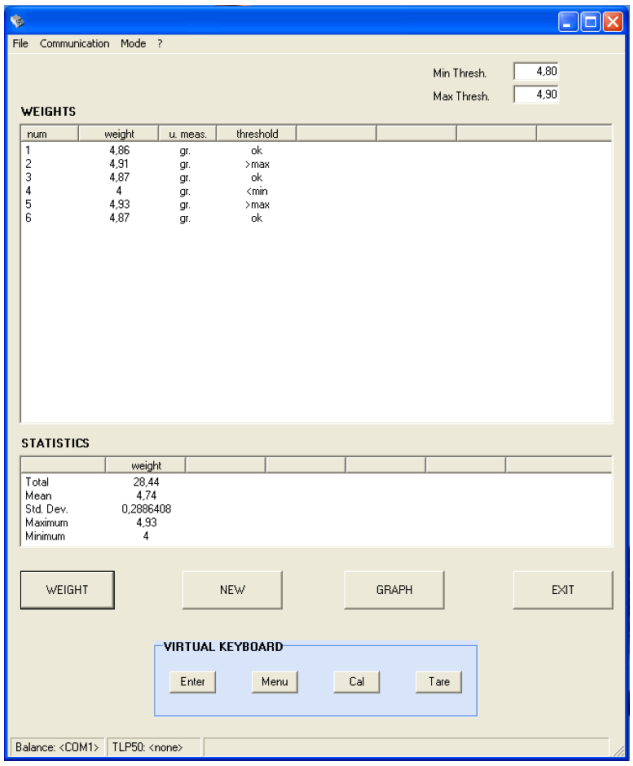
weight" textbox with the unit currently set on the balance. This weight can be manually inserted editing this textbox. Pay attention to insert the data in the corrected unit of measure.
Once inserted the reference weight load the sample on the balance and click "WEIGHT" to perform the measure. The measured weight will be added in the "Weights" list with an increasing number, the unit of measure set on the balance and the correspondent pieces number ("pieces" column).



It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in "Simple Mode". Refer to "Statistics and graphs" section for "Statistics" list and "GRAPH" button.
If data from the balance cannot be read, in few seconds the error message "Not recognized data" will be visualized, act as described in the "Simple Mode" section to solve the problem.

Threshold

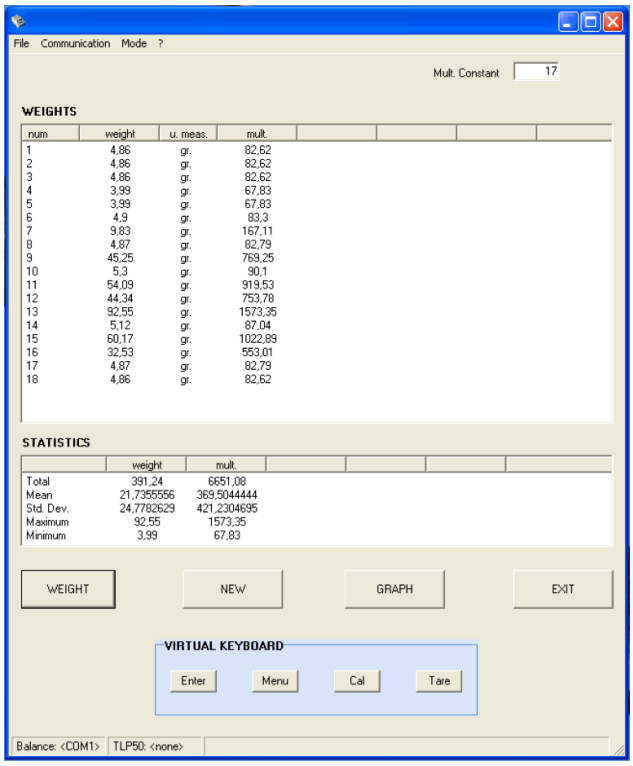
Threshold function allows to determinate if the weight loaded on the balance pan is above or below the two thresholds fixed by the user.
Type the minimum threshold value in the "Min. Thresh." textbox and the maximum threshold value in the "Max. Thresh." textbox. Pay attention to insert the data in the corrected unit of measure.
To perform weighing, load the sample on the balance and click "WEIGHT" button, the sample weight will be reported in the "Weights" list, with an increasing number, the measure unit on the balance and an indicator for the comparison with the thresholds ("threshold" column). If the weight is under the minimum threshold it is displayed "<min" message, if the weight is over the maximum threshold it is displayed ">max" message, if the weight is included between the set thresholds it is displayed the "ok" message. If the weight is not included between the two thresholds an alarm sound is emitted.



Click “WEIGHT” button again to perform a new measure, that will be appended to the “Weights” list.
It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in “Simple Mode”. Refer to “Statistics and graphs” section for “Statistics” list and “GRAPH” button.
If data from the balance cannot be read, in few seconds the error message “Not recognized data” will be visualized, act as described in the “Simple Mode” section to solve the problem.

Constant

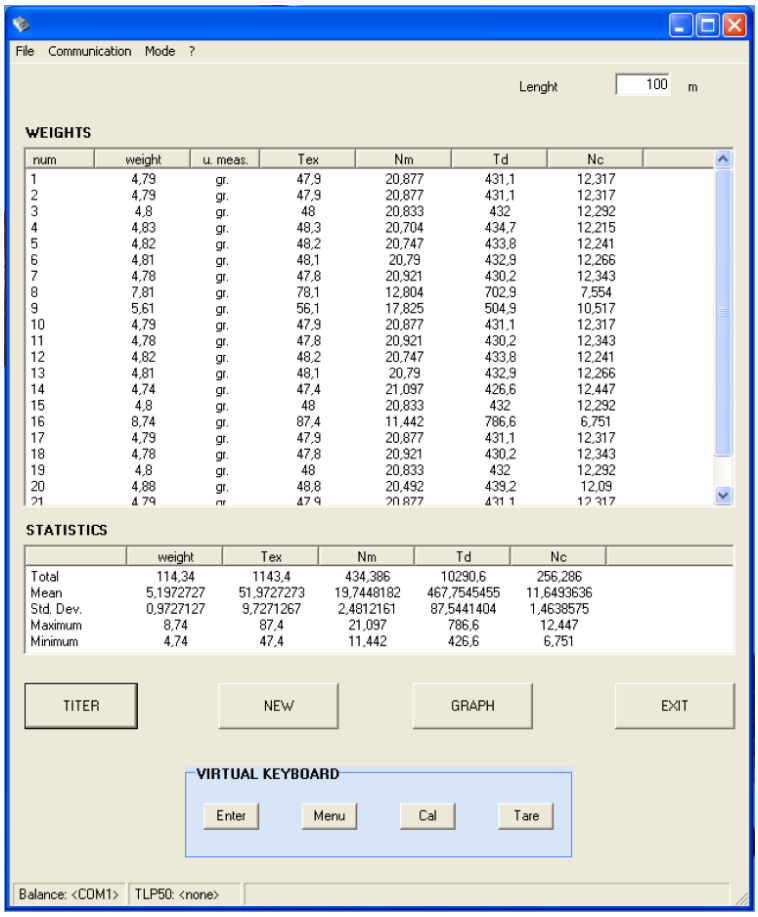
Multiplies the weight value for a constant. The constant must be typed in the “Mult. Constant” textbox.
Once inserted the multiplicative constant, perform sample weighing as described in “Simple” weighing mode paragraph of this manual. In the “Weights” list appears the measured weight with an increasing number, the measure unit set on the balance and the weight multiplied for the inserted constant (“mult.” column).



Click “WEIGHT” again to perform a new measure that will be appended to the previous ones.
It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in “Simple Mode”. Refer to “Statistics and graphs” section for “Statistics” list and “GRAPH” button.
If data from the balance cannot be read, in few seconds the error message “Not recognized data” will be visualized, act as described in the “Simple Mode” section to solve the problem.

Textile

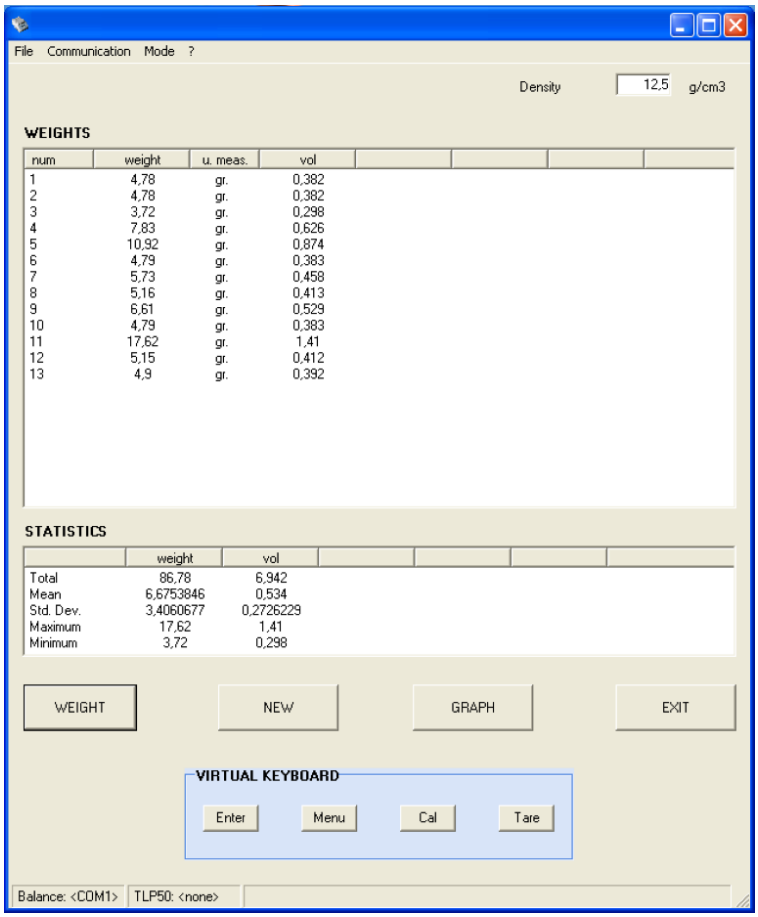
Performs textile titration if the thread length is known.
Insert the thread length of the sample (in meters) in the “Length” textbox. Load the sample on the balance and click “TITER” button. In the “Weights” list the measured weight is added with an increasing number and the measure unit set on the balance, the titer (Tex), the metric number (Nm) the denier titer (Td) and the cotton number (Nc).
Click “TITER” again to perform a new measure, that will be appended in the “Weights” list.



It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in “Simple Mode”. Refer to “Statistics and graphs” section for “Statistics” list and “GRAPH” button.
If data from the balance cannot be read, in few seconds the error message “Not recognized data” will be visualized, act as described in the “Simple Mode” section to solve the problem.

Volume

Calculates the volume value of the sample if its density is known. Type the density value in the “Density” textbox. Pay attention to insert the data in the measure unit of the balance for cm^3.
Load the sample on the balance pan and click “WEIGHT”. The measured weight will be added to the “Weights” list with an increasing number, the unit of measure of the balance and the sample volume in cm^3 (“vol” column)
Click “WEIGHT” again to perform a new measure that will be appended to the previous ones.
It is possible to save data, visualize graphs or remove data from the list after each data acquisition (the whole row), exactly as described in “Simple Mode”. Refer to “Statistics and graphs” section for “Statistics” list and “GRAPH” button.
If data from the balance cannot be read, in few seconds the error message “Not recognized data” will be visualized, act as described in the “Simple Mode” section to solve the problem.



4. Information Menu

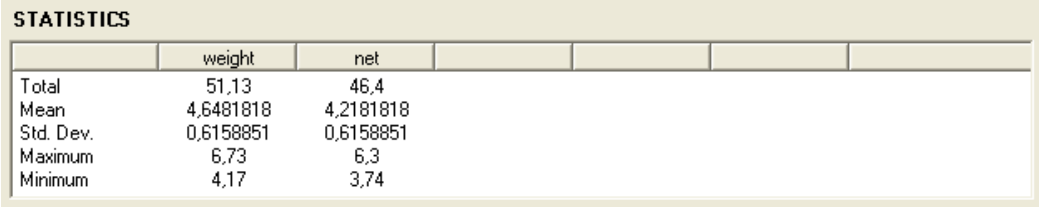
Information

Displays the “Information” window with the current i-Weight Software version.

5. Statistics and Graphs

"Statistics" List

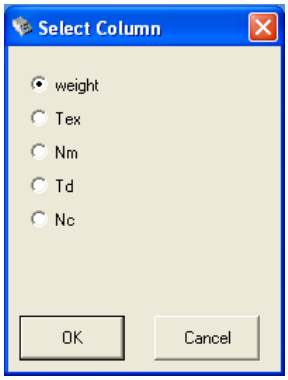
"Statistics" list displays in real time statistical data of the performed measures. The row "Total" visualizes the data total sum, the row "Mean" shows the simple mean (total value divided by data number), "Dev. Std." reports the data standard deviation from mean, "Maximum" and "Minimum" show the maximum and the minimum value of data respectively.
According to the different chosen weighing mode in "Mode" menu, in "Statistics" list columns are reported the statistics for each column of the "Weights" list.
"Statistics" list is automatically refreshed in real time every time the data in the "Weights" list are modified (new measures or cancellations).
When data are saved with "Save As.." option in the "File" menu, the currently visualized statistical data are included in the file.


STATISTICS

	weight	net
Total	51,13	46,4
Mean	4,6481818	4,2181818
Std. Dev.	0,6158851	0,6158851
Maximum	6,73	6,3
Minimum	4,17	3,74

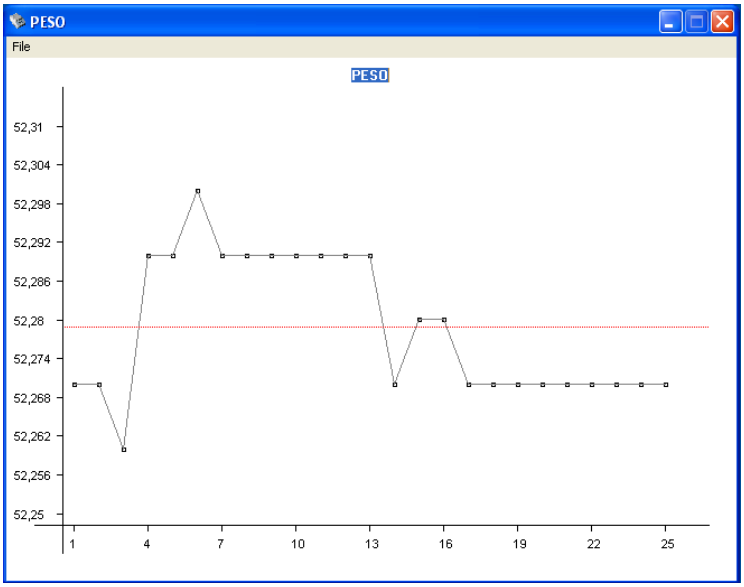
Graph Window

I-Weight can display graphs of the acquired data. To view a graph click "GRAPH" button, the "Select Column" window is displayed. In this window the column of "Weights" list that can be reported on a graph are listed. These columns entries depend on the chosen weighing mode.



Choose the desired column and click "OK". A window containing the Cartesian graph of chosen data and a red line for the simple data mean is displayed.
It is possible to change the graph title (and of the graph window) clicking on the title and directly editing it.

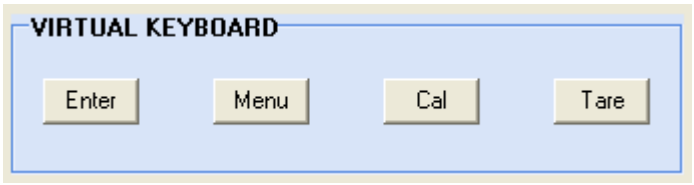
The “File” menu of the graph window contains the “Save As…” command that saves a bitmap copy of the graph to include it in reports or for archiving, the “Print” command to directly print the graph on a Windows printer and the “Exit” command to close the graph window.



Clicking again the “GRAPH” button inside i-Weight main window it is possible to display more than one graph at time, each referred to data of the same column or of different columns.

6. Virtual Keyboard

I-Weight has the possibility to use a virtual keyboard to control the balance, exactly when the real buttons of the balance are pressed.
In the bottom part of the i-Weight main window there is a box with a representation of balance buttons. Clicking these buttons is the same as pressing the correspondent buttons of the balance.

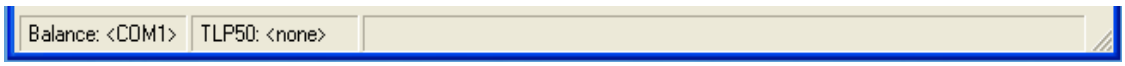


I-WEIGHT virtual keyboard button	**BALANCE** corresponding button
Enter	"Enter" button of the balance
Menu	"Menu" button of the balance
Cal	"Cal" button of the balance
Tare	"Tare" button of the balance

For a description of the balance buttons function, please refer to the instrument user manual.

7. Status bar

In the bottom part of i-Weight window a status bar is present. This bar shows the serial ports currently selected for the balance and for the TLP50 printer (optional). Before weighing or printing check if these ports respond to the real ports where instruments are connected.



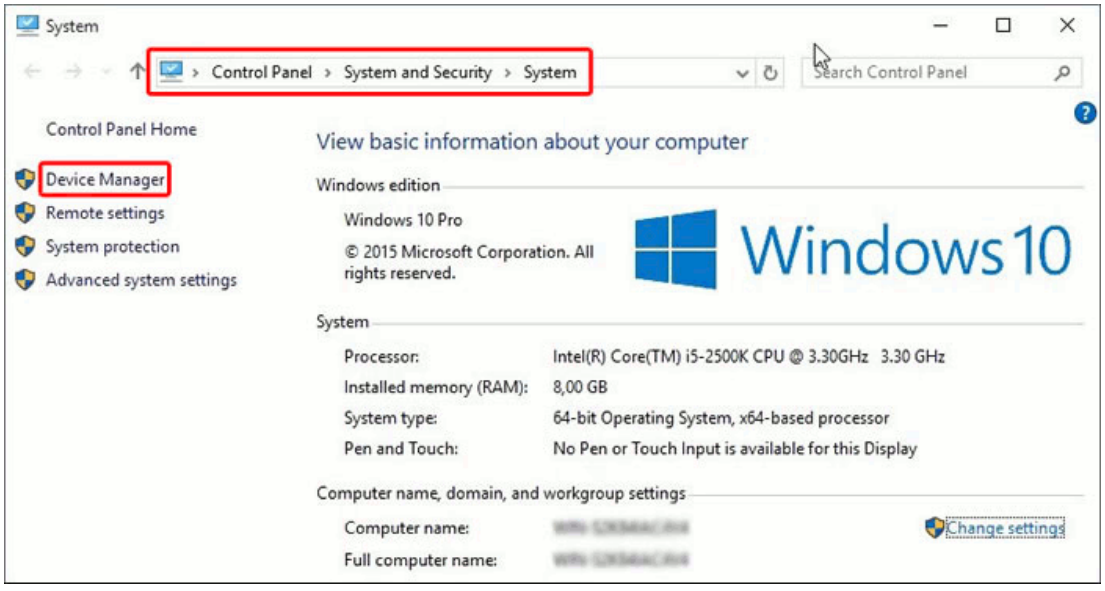
8. Troubleshooting

Problem: you press WEIGHT button and receive error message window "Not valid data: check the serial port"

Probable cause: cables connection problem or wrong serial COM port number selected in the "Communication"/"Balance port" menu

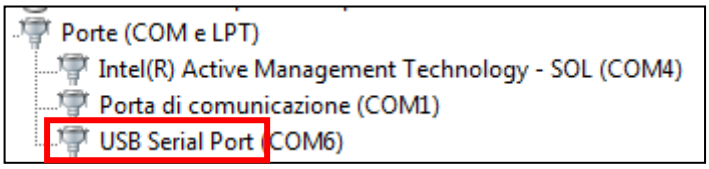
Solution:

- Verify that converter is inserted into the USB port of the computer, that serial cable is connected to the converter and that serial cable is connected to balance
- Verify that USB port of your computer is at least 2.0 and not 1.0 or 1.1 version
- Verify that the baud rate set on the balance is 9600
- Verify that the comunication mode set on the balance is PC-Cont (PC continuous)
- Go into the "Communication" menu of i-Weight then go to "Balance port" sub-menu and select the right number of COM port corresponding in your computer to the installed serial-to-usb converter
  To know which COM port number has been assigned to the serial-to-usb converter during installation, go to Windows "Control Panel", then "System and Security", then "System", then click on "Device Manager" (see image below).

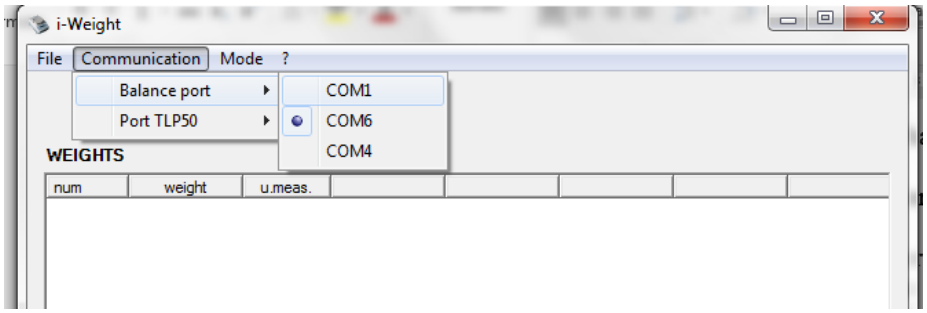


You will see a complete list of all devices installed on your computer. Click on PORTS (COM and LPT) and you will have a list of all COM ports currently present on your computer. The serial-to-usb converter included with i-Weight takes the name of "USB Serial

Port"(double check that the manufacturer is FTDI); in this way you come to know the number of the COM port. In the image below, for example, it is COM6.



Close this window and return to i-Weight. Go into "Comunication" menu, select "Balance port" sub-menu and select the right COM port number (in the case of this example it is COM6 port)



Solution (unlikely event)**:**

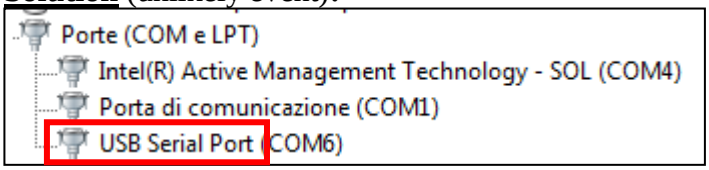


Image 1

Go to "Control Panel", then "System and Security", then "System", then click on "Device Manager" again**.**
Double Click on the "USB Serial port" (*see image 1*) device under "Ports (COM and LPT)"

The Properties window of the device opens, go to "Port Settings" Tab *as shown in the image 2* and check that these values are set as following:

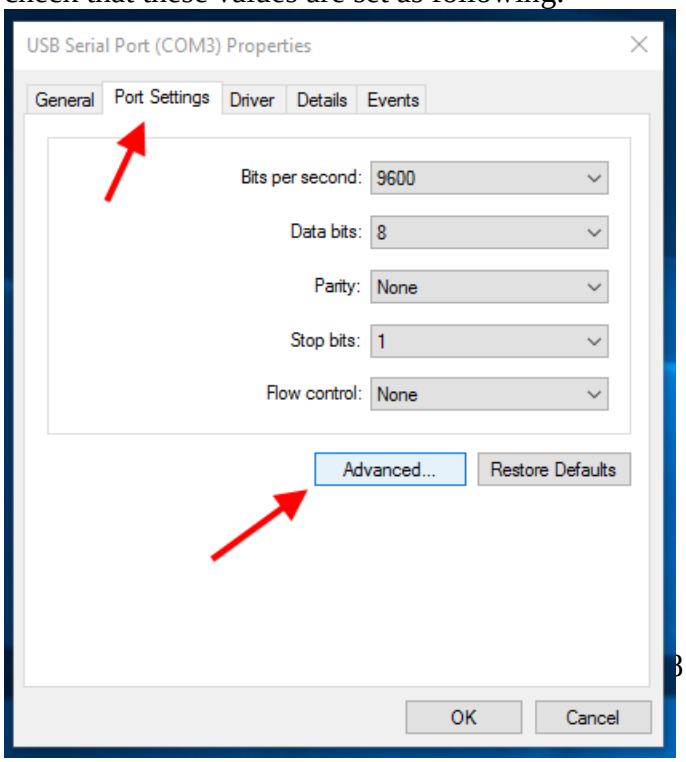


Image 2

Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Row control: None

Now click on "Advanced" button and the Advanced Settings windows will open, *see image 3*.

Set these values:

Receive (Bytes): 4096
Transmit (Bytes): 4096
Latency timer (msec): 1
Minimum Read Timeout (msec): 200

Minimum Write Timeout (msec): 1000

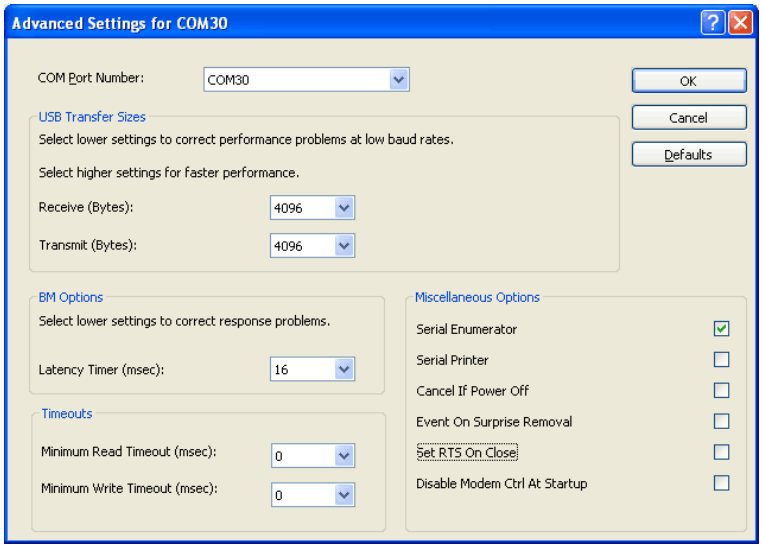


Image 3

9. Software Terms

BEL Engineering srl (BE from now) is the developer of *i-Weight* software.

This software is supplied “as it is” and is not covered by any use license.

We are not responsible for any improper or incorrect use of such software outside of its functions described in this user manual, or if it is voluntarily hacked or changed by your side to perform other actions/operations different from the ones described in this user manual.

Updates of the software are authorized only if coming just from BE, other updates or versions of i-Weight software are not authorized from us and are not granted to work properly with balances following our specifications and rules.

Please refer any problem/comment/suggestion or eventual bug in the software directly to info@belengineering.com

Thank you