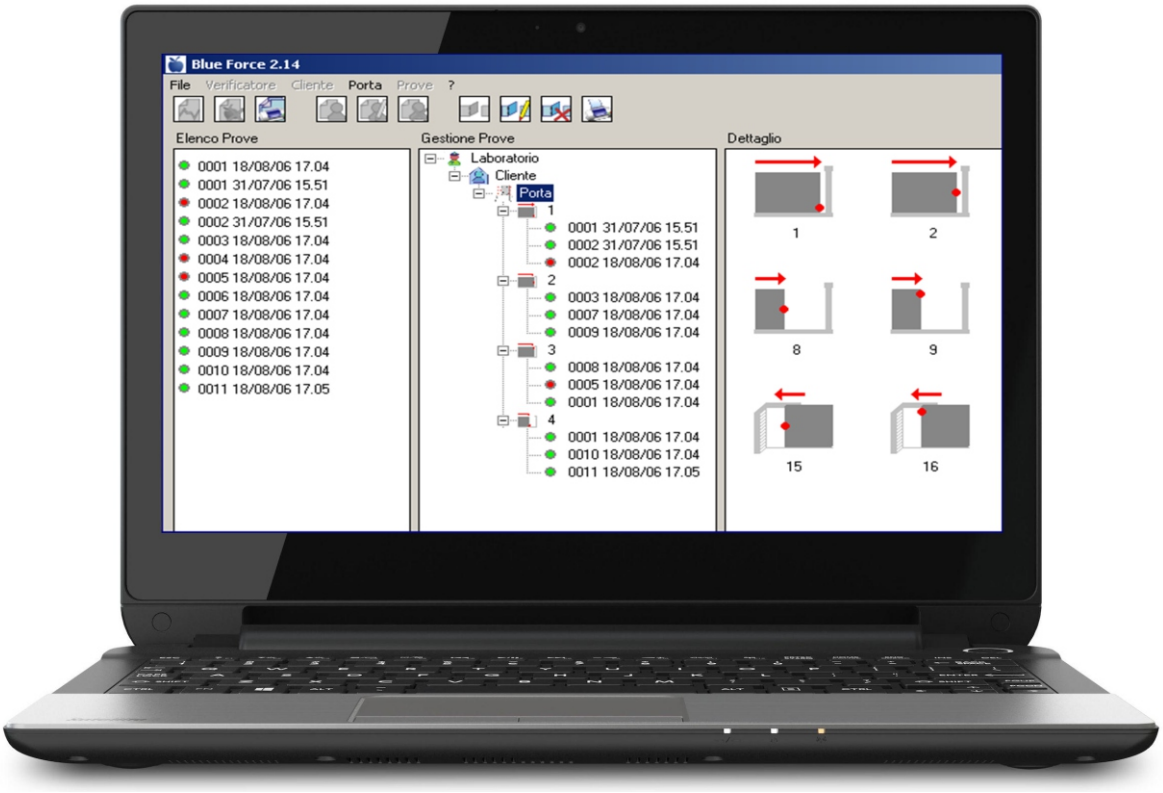
microtronics®
Professional Instruments

Blue Force

BlueForce software

for Windows ®

Instructions for use



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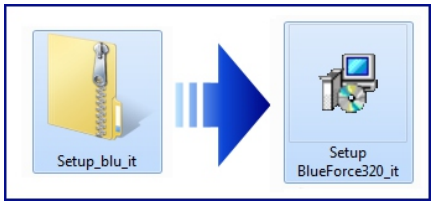
Software for Windows PC - Download

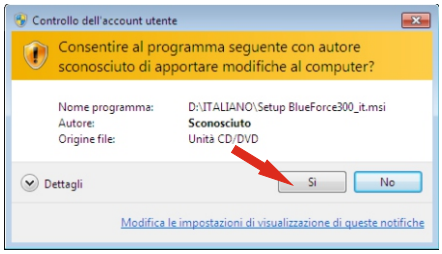
Web link to download **BlueForce software for PC- Windows**: ***www.microtronics.it/start.html***

To download **updates,** visit: *www.microtronics.it/area_download.html*

ATTENTION ! The file is not harmful, please allow your Browser or Antivirus to download the file **Setup_blu_en.zip** or the **update_blueforce_en.zip**

Download the **zip file**, then extract the **setup file** to the desktop of your computer and finally run the application to install the BlueForce software on your PC.



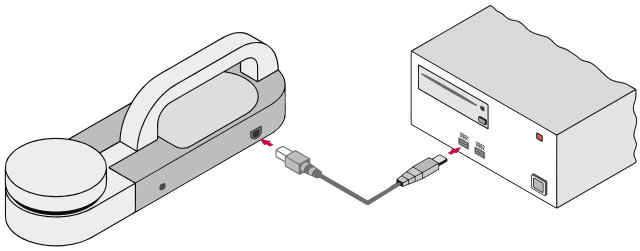


ATTENTION!

Before starting the BlueForce software it is necessary to install the drivers as follows

USB driver installation

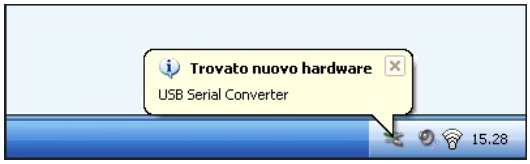
Connect the instrument to the PC with the supplied USB cable, as shown in the figure (the instrument does not need to be turned on).



ATTENTION!

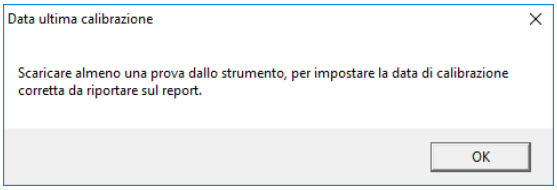
If there are several USB sockets, remember to always insert the USB cable into the same socket.

Wait a few seconds for the **drivers** of the new hardware to be installed (see pop-up in the task bar).

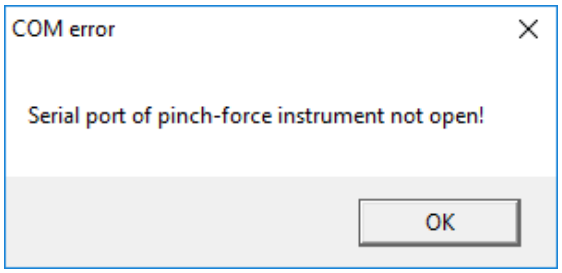


Software Launch - Warnings

When starting the BlueForce software for the first time, some warnings may be displayed:



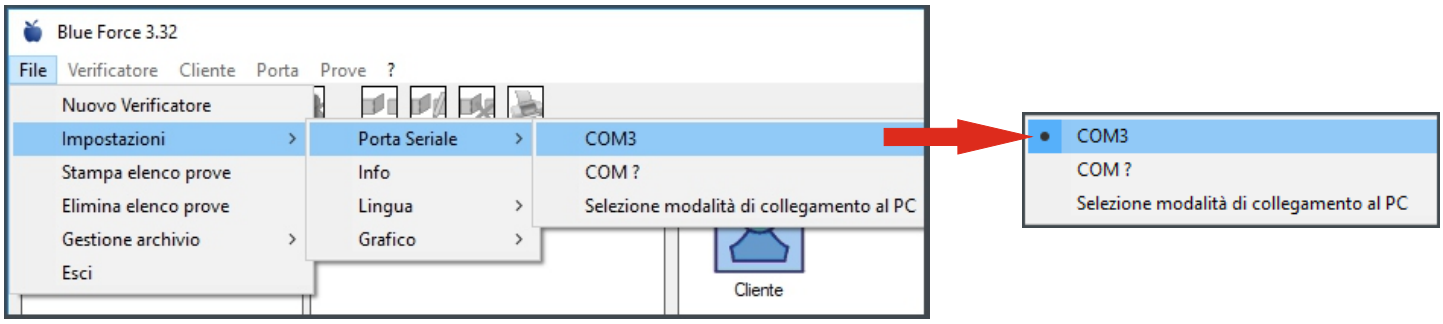
Calibration date setting: he software will prompt you to download at least one test from the instrument to enable the calibration date (this can be done after setting up the serial port).



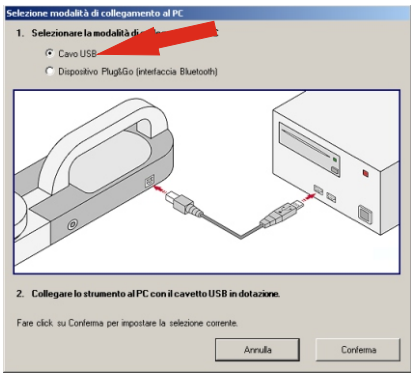
Serial port setting detection: if the serial port has not been set automatically, the software will ask you to set it manually (see next paragraph).

USB-Serial Port Setup

If the software displays the warning **"serial port of pinch-force..."** you need to **close** the BlueForce software, make sure that the USB cable **is connected** between the instrument and the PC, then **start** the software. If the warning still persists, then **set the USB-Serial port manually**: open the menu **File-> Settings-> Serial Port->** and click on the free serial port (e.g. COM3), **a black dot** confirms the serial port setting (if the dot is not displayed, exit and enter the **File** menu to update the setting).



N.B. In some cases it is necessary to check the PC connection setting, so open the menu **File-> Settings-> Serial Port-> Select PC Connection Mode->** Set **USB Cable** and Confirm.



BlueForce Software - Overview

(1) Measurements list area - Measurements transferred from the instrument with the USB cable are listed in the left area

(2) Measurements management area - The central area allows the association of measurements from the list to the doors

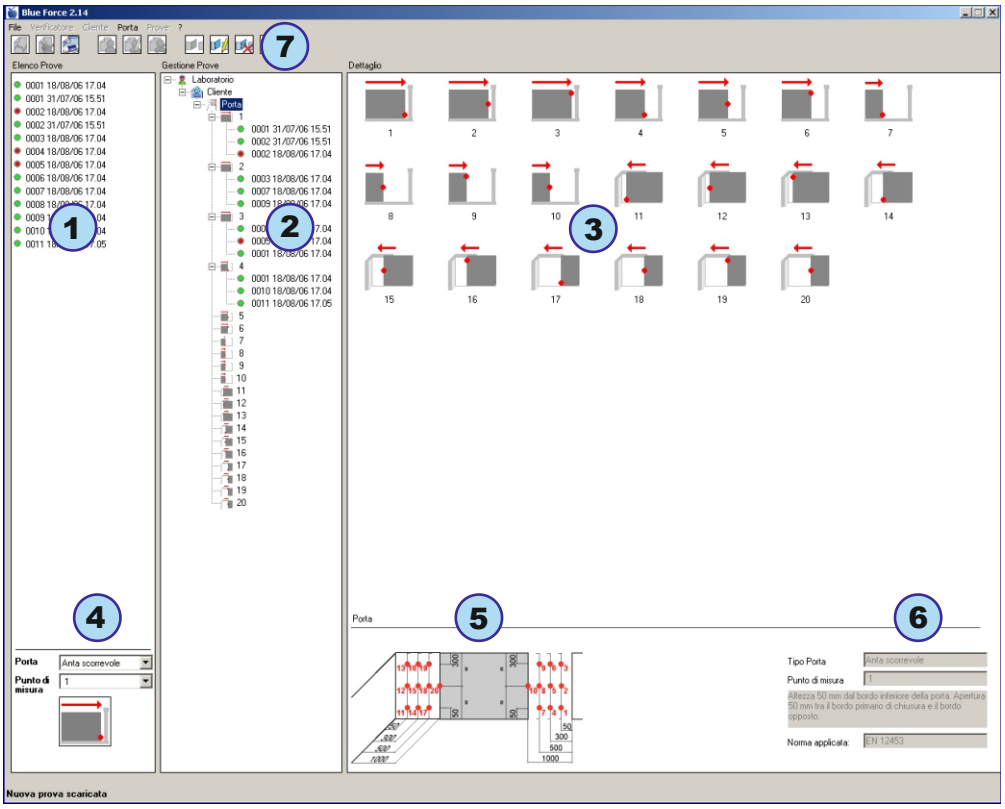
(3) Detail area - On the right side you can view the details of the doors added.

(4) Control Area - In the lower left corner there is a preview box that allows evaluation of measurements.

(5) Detail of measurements points - Representation of measurement points with reference to the type of door.

(6) Reference standard - Detail of the measurement point defined by the applied Standard.

(7) Functions menu - Menu for selecting software functions.



BlueForce Software - First Use

Make a 'Test Measurement' as described on page **5**.

Transfer the measurements to the software using the **USB cable** and the **SEND-USB** function on the instrument, as described on page **7**.

Measurements sent to the software are arranged at the top left and continue downwards. Each measurement includes a sequential number, date and time. To the left of the measurement there is a **dot** that can be either **green** or **red** to indicate the result: positive or negative.

The colour/result evaluation is defined by the control area below, then by selecting the door type and the measurement point, the results of the listed measurements are automatically displayed.

Before associating the measurements in the left box, it is necessary to create at least one **Verifier,** then a **Customer** and finally a **Door** (**N.B.** a new door must contain at least one description in the **Door Identification field)**.

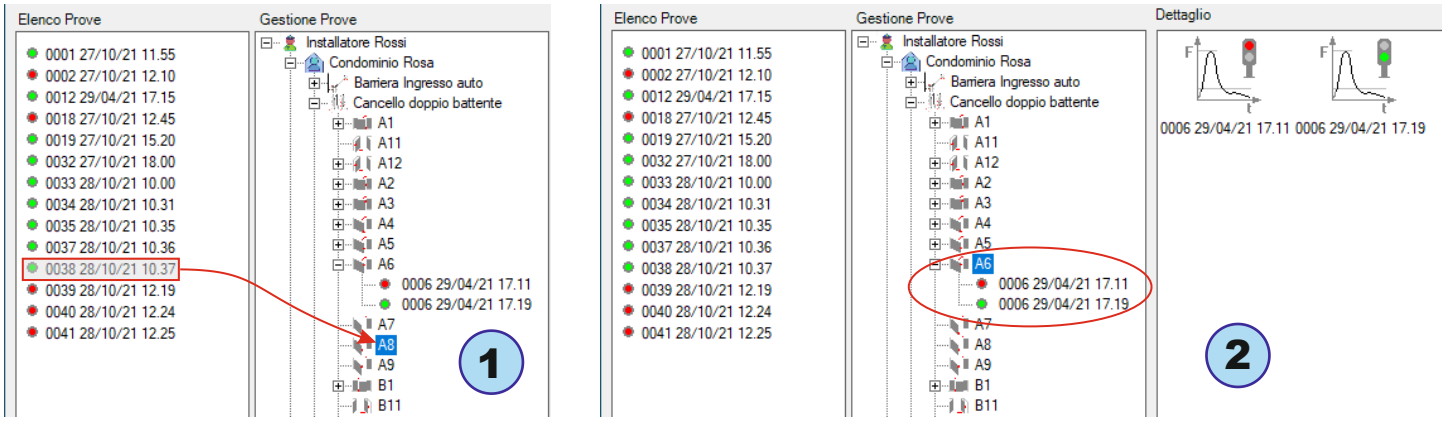
The main menu at the top of the screen can be used for these operations, or simply **right-click** on the **Verifier** and use the contextual window **to Add, Edit, Delete**, etc.

The creation of a **new Customer** with its associated **Door,** allows the software to automatically create all the **Measurement Positions** and to set the relative limits as indicated in the Standard.

By clicking on any reference in the central part (Verifier, Customer, Door and Measurement Point), on the right side you can view the information detail.

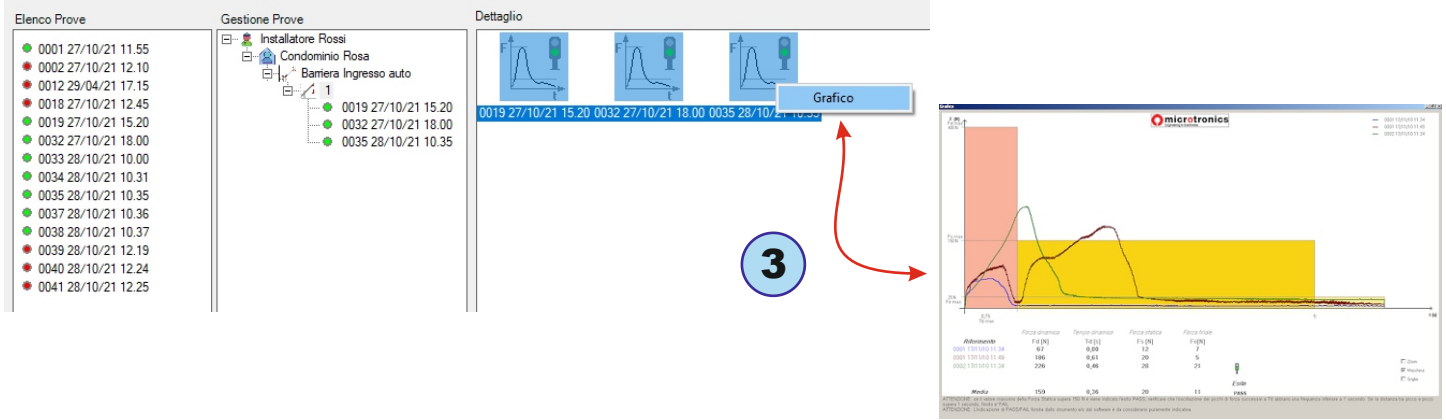
To **associate a measurement, highlight** the corresponding measurement point with the **left** mouse button (e.g., point No. **8**) and then **drag the measurement** (e.g., No. **0038**) to point No. **8** (see Fig. **1**).

In the example shown in fig. **2**, **2** measurements have been associated with point **6**.



N.B. The EN 12453 Standard requires that **at least three measurements** are inserted for each point. The software will automatically calculate the average of the values (see paragraph Print Report on page **19**).

For each measurement it is possible to view **the graph and its parameters** by clicking on the measurement itself, or it is possible to view **the graph of the resulting average** by selecting two or more measurements in the detail box, then clicking with the **right** button on the selection and choose **Graph** from the menu, see figure **3**.



Menu Functions

File-> New Verifier: a New Verifier can be added in this menu.

File->Settings->Serial Port: in this menu you can check the serial port assigned to your instrument; a black dot marks the serial port COM set, see also page **15.**

File->Settings->Info: this menu displays some information about the instrument: Model, Serial No., Calibration Date, Firmware Version.

File-> Settings-> Language: in this menu you can change the language setting.

File-> Settings-> Graph: in this menu you can set up some ways of displaying graphs.

File-> Settings-> Door Type: In this menu you can select the types of doors you want to enable in the software with reference to the current Standards. **N.B.** it is advisable to tick only the types that are normally used in your work environment.

File-> Print/Delete Tests List: in this menu you can print/delete all the measurements present in the left box "Tests List".

File-> Settings-> Archive Management: in this menu you can locate the path to your customers/measurements database. You can select another database or import a backup database.

Verifier: in this menu you can edit **Verifier** data and add a **Customer.**

Customer: in this menu you can edit the **Customer** data and add a **Door.**

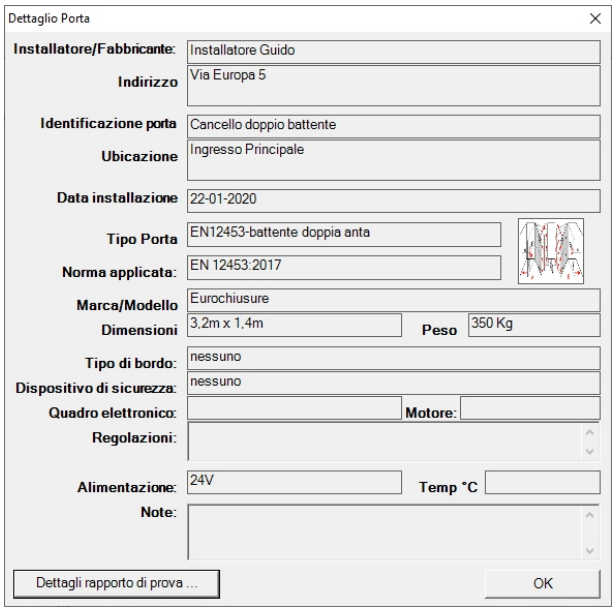
Door: in this menu you can edit the **door** data and start the **print preview.**

Tests: in this menu it is possible to modify only some data of the selected measurement

To download BlueForce **software updates** visit: ***www.microtronics.it/area_download.html***

Print Report

The Print Report consists of several pages, the contents of which include installer, customer and door data. The data can be edited before printing in the **Door Detail** menu.

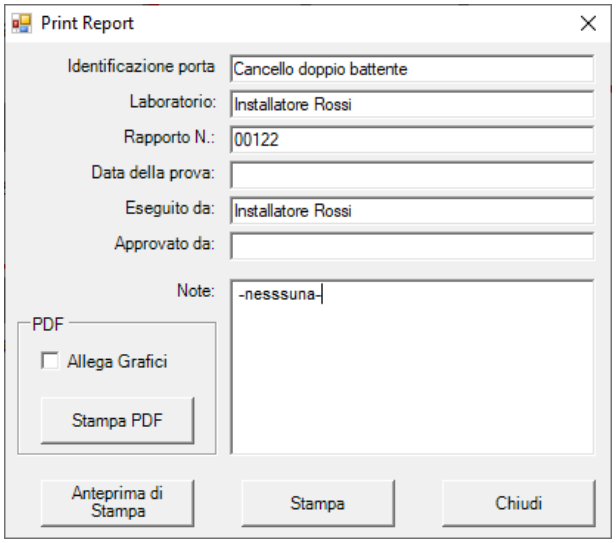


Print Preview

The Print Preview allows you to view and add **more details** about the report before printing it; it can be printed also in electronic format (PDF).

You can also attach a printout of the graphs by checking the menu **Attach Graphs** and clicking on **print PDF**.

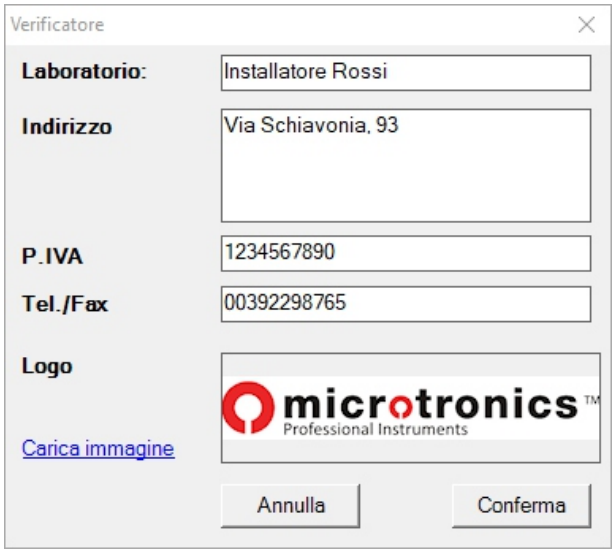
Then you are prompted to select one or more graphs from the list.



Logo Print - Single Measurement

In the **Verifier** menu, you can add **your logo** in PNG or JPG format in the detail window.

The logo will be reproduced on the printout of the single measurement graph.



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