CPF
INDUSTRIALE

BRIXIA X

AC993 - EXTINGUISHER PRESSURE TEST

Download the complete MANUAL

PRESSURE TESTER
FOR CHECKING FIRE EXTINGUISHERS

⚠️ **Please read this instruction manual carefully and keep it together with the other documents that come with this product.**
All documentation relating to the product must be retained as it contains the procedures to be followed for periodic maintenance and servicing.

AC993 BRIXIA X is the pressure tester for fire extinguisher inspections designed in response to modern pressure test requirements for pressurised powder extinguishers.

A powerful processor and state-of-the-art electronics make the tester a valuable companion. Thanks to its internal flash memory, it can store both the names of the technicians who will be using the tester and the customer's master data, which can be transferred via the micro-SD card.

It will therefore be possible to associate the tests with the customer and the technician who carried them out, ensuring perfect traceability of each operation carried out.

The tester comes complete with a rugged IP67 waterproof case containing everything you need to perform pressure tests, including a Bluetooth printer and calibration report.

A colour graphic touch screen and rechargeable lithium battery complete the instrumentation. You can use the QR code to send measurement data directly to the appropriate management software. This instrument meets the requirements of UNI 9994-1:2013 Section 4.5.

MADE IN ITALY

Connection with fire extinguisher

1 - Unscrew and remove the pressure gauge from the fire extinguisher '**Control valve'**.

2 - Screw the BRIXIA X '**Probe**' into the fire extinguisher 'control valve', ensuring that it is properly tightened to prevent the extinguisher from being depressurised.


WARNING:

N.B. Before starting any pressure test, check that the name of the customer (Customer List) and operator (Operator List) are present in the Master Data menu.
If this is not the case, enter the new Customer and Operator.

Switching on the tester

● **Switch on the BRIXIA X using the ON/OFF KEY on the right-hand side of the tester.**
When the tester is switched on, it loads the graphically displayed program with an increasing numerical count (0-100%).

BRIXIA X
FW: 1.0.0.a
S/N: 2018-000001

0%

loading...
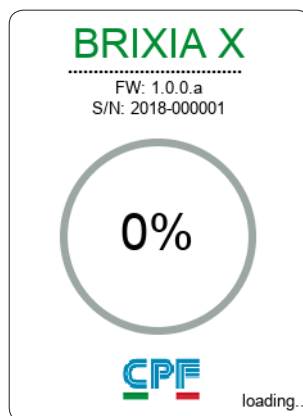
Starting the pressure test

● After switching the tester on, page 1 of the "**Main screen**" is displayed, consisting of four menu buttons.
The "**Main screen**" features buttons to directly access the **Measurements**, **Measurement Archive**, **Master Data** and **Report Archive** functions.
There is also a clock with hours, minutes and the date, while the icon on the right shows the battery charge status

or the presence of mains power ⚡ , but only when no batteries are installed or functioning.
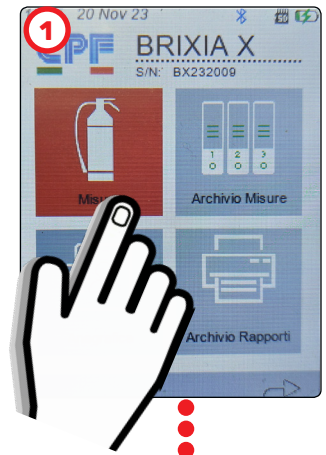
① Press the **Measurement** button to enter the **Measurement Settings** menu.

② Press **Choose Operator** and choose the name of the **Operator**. Confirm your choice by pressing the ✓ button.

③ Press **Choose Customer** and choose the name of the **Customer**. Confirm your choice by pressing the ✓ button.

④ Press **Serial Number** and choose the serial number of the fire extinguisher. Confirm your choice by pressing the ✓ button.
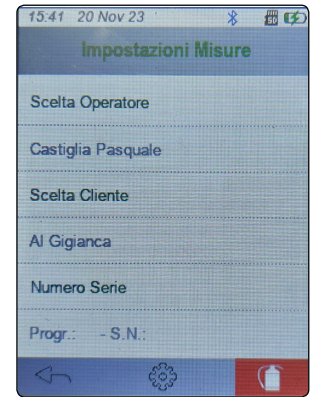
N.B. From the **Operator/Customer** list, new **Operators/Customers** can be added by pressing the 🗐 button and then the ✏ button. Enter **Surname, First Name, Operator/Customer** ID and save by pressing the 💾 button.
To delete the entered data, press 🗑 .

---

(5) After setting **Operator**, **Customer** and **Fire Extinguisher Serial Number**, press the button.

⚠️ To save **Data Archives**, **Measurement Archive**, **Load Data Archives** onto **SD Card**, press the button ⚙️ and enter the password **1234**. Confirm the password by pressing **OK**.

GRAPHIC display FIRE EXTINGUISHER TEST:

- **POWDER/FOAM/Other extinguishers**

(6) This screen displays the pressure value in the extinguisher using a graphic pressure gauge.

The numeric pressure value (bar, PSI, MPas) is also shown in the centre of the display.

This curve ranges from **0 bar to 30 bar**. Below the graph there is also a title box showing the pressure value (bar) over time (40 s/dv). When pressed, it enhances the display (**Zoom Enabled**) by centring the scale on the current measurement.

To store the test, press the button.

The test is saved in the **Measurement Archive** menu.

During saving, the button turns green .

- **CO2 / Water/Other extinguishers**

(7) In this screen, it is the operator who manually enters the result after checking and testing the extinguisher.

- If the check has been passed, press on the display until "**OK**" appears and save by pressing the button.

- If the check has NOT been passed, press the display until "**OK**" appears and save by pressing the button.

During saving, the button turns green .

⚠️ In the middle at the top, the abbreviation "**ID:**" indicates the sequential number of the fire extinguishers.
It can be one of two colours.
- When "ID:" is **GREEN**, it indicates that the test has been performed and stored.
- When "ID:" is RED, it indicates that the test has yet to be performed and stored.

- The **ZERO** button is used to reset small disturbance pressures, only when the '**Probe'** of the BRIXIA X tester is disconnected from the extinguisher.

- The ⌂ button allows you to return to the "**Main Screen**".

⚠ Respect the tester pressure limits. Pressures beyond the sensor's functional limits cause it to break.

Measurement Archive

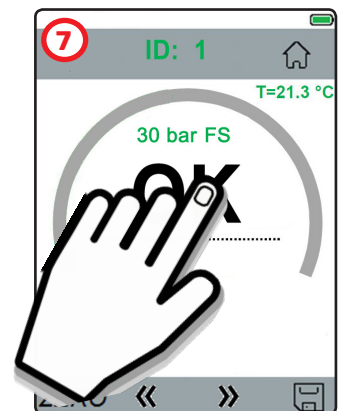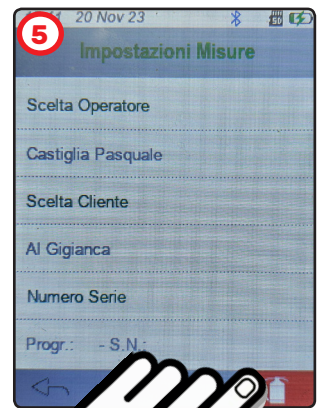From the "**Main Screen**", press the button.

The **Measurement Archive** menu lists all individual leakage tests carried out in alphabetical order.

Example:

1. A TAVOLA - 21Nov. 2023
2. A TAVOLA - 21Nov. 2023
3. Ai Giardini - 21Nov. 2023
4. Ai Giardini - 21Nov. 2023
5. Ai Giardini - 21Nov. 2023
6. ....…

To view **reports for each individual measurement** taken,

tap on the desired test and press the button.

In the **View Measurements** screen, you can:

● Press the button to display the QRcode for each test.

● Press the , button to print the test report.

(N.B. Turn the printer on before printing).

The receipt also contains a **QR code** with the data of the measurement just taken. Frame the **QR code** with your smartphone to download and share the data.

● Press 🗑 to delete the test report.
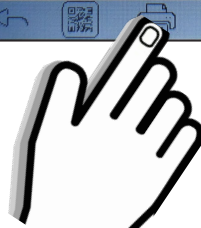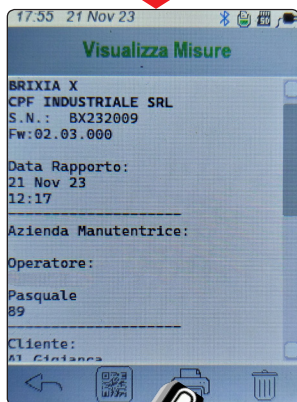
To turn the printer on, press the POWER button for 2 seconds. The **BLUE Led** will light up.
The battery symbol on the printer indicates the remaining charge.

100% charge

Download
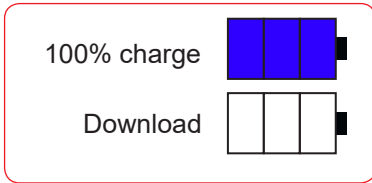
Report Archive

From the Main Screen, press the 🖶 button.
The **Report Archive** menu lists the customers for whom leak tests have been performed in alphabetical order.
Next to the customer's name in square brackets [N°] is the number of leak tests performed.

Example:
1. A Tavola - [2]
2. Ai Giardini - [3]
3. ....

Two pressure tests were performed and saved for the 'A Tavola' customer, while three pressure tests were performed and saved for the 'Ai Giardini' customer.
To view all tests performed on each customer, tap on the relevant name and press the 📑 button.

On the **View Report** screen, you can:

• Press the 🖶 button to print the report of all the test performed for the customer in question. (**N.B.** Turn the printer on before printing).

• Press the 🗑 button to delete the report of the tests performed for the customer in question.
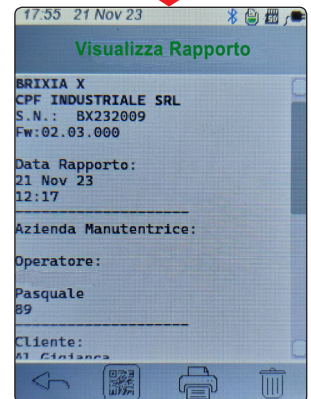
• Settings

From page 2 of the "**Main Screen**", press the settings button.
The following items can be set in the settings menu:

• Language
Choose between ITALIAN / ENGLISH and press **OK** to save.

• Date and time
Date: Set correct DAY/MONTH/YEAR.
Time: Set correct HOUR/MINUTES.

Press the button to save the set values.

• Printer selection
By default, the printer is already set to model **BST339**.
Press **OK** to confirm printer.

• Backlighting
Scroll and set the display backlight percentage. The brightness of the display increases as the percentage increases.
Press **OK** to confirm the set brightness.

• Unit of measurement
1 - Press **Pressure / Temperature** and press **OK**.
2 - Set the desired unit of measurement (Bar; Psi; MPa) / (°C; K;°F) and press **OK**.

• Buzzer Activation
Activate/deactivate buzzer sound:

V = **BUZZER ON** (each time the display is touched the tester emits a beep).

☐ = **BUZZER OFF** (no beep).

• Keyboard type.
Set the desired keyboard type, choosing between **T9 / QWER-TY** and press **OK**.

Pressing the button takes you back to the "**Main Screen**".
Press the button to update the software by pressing **FW Update**.
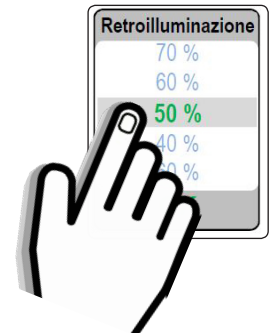
• FW Update

Connect the USB type C cable to the BRIXIA X and the port on your PC.

1- Download the file in compressed form (.zip) from our website.

2- After downloading the file to your PC, unzip it.

3- Launch the BRIXIAXUpdater.exe application

4- Press the LOAD FILE button and load the BRIXIAX_xxxx file. hex (xxxx= file version).

5- **Upgrade** by pressing the **Set Update** button according to the instructions that appear on the PC.
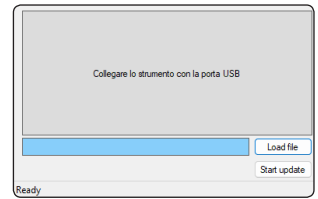
• DataLogger

From page 2 of the "**Main Screen**", press the **DataLogger** button.

The **DataLogger** function allows you to graphically display the **pressure** value and the **ambient temperature value** during the pressure test.

• To display the graph for the current test, press the ⭕ button. The test is only **performed and recorded** if the SD CARD is inserted.

• To lock the current test graph, press ⬜ .

To continue the test, press the ⭕ button.

The ⬅ button interrupts the test and returns to the main menu.

Press the setting ⚙ button to set what to display or NOT to display in the graph:

Pressure (**P**) and Temperature (**Amb T**).

☑ **P**
☑ **Amb T**

Sampling:**1 sec.**

Press "**sec.**" to change the sampling time.

Set the time (in seconds) and press OK .

To view the graph, press the ⬅ button.
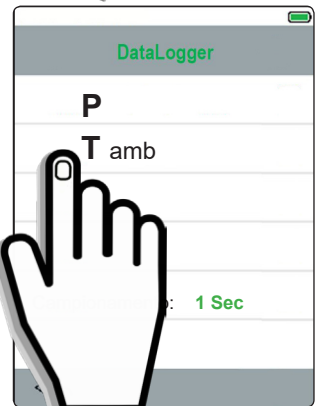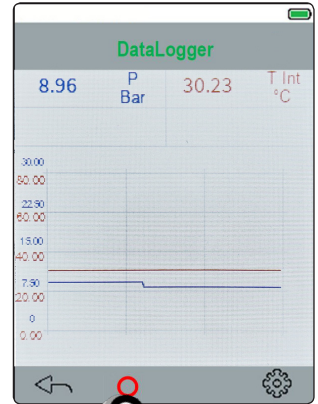
During the pressure test procedure, there may be an occasional loss of pressure due to the extinguishing powder. To prevent this inconvenience, we recommend the use of the supplied accessory (check valve), which will allow the operation to be carried out according to the procedure below.

(1) Unscrew and remove the pressure gauge from the fire extinguisher '**Control valv**e'.

Screw the '**Brass fitting**' **(2)** into the fire extinguisher valve **(3)**, ensuring that it is properly tightened so as to prevent the depressurisation of the fire extinguisher.

This can be done even in the presence of dust leakage as there is a bonded seal.

Screw in the BRIXIA X **Probe (4)** and perform the test.

Once the test is complete, the pressure gauge can be screwed directly onto the **Fitting** (check valve).
At the next six-monthly pressure check, the presence of the **Fitting** will facilitate the test.
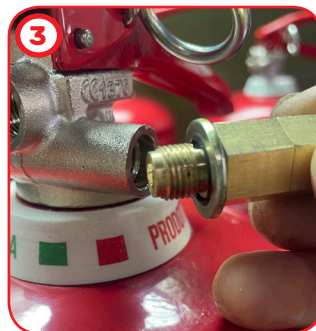
• Calibration CHECK:

To keep the tester in good working order and to ensure correct measurements in accordance with current regulations, routine maintenance is required.

As a precision instrument complying with current directives, it must be serviced by CPF Industriale at least once a year or every 300 working hours if less than a year has elapsed since the last service.

Normal service includes a functional check of the tester, including a calibration report, cleaning of the circuit channels and a software update.

• Periodic CHECKS:

Check that the **Pressure Gauge Probe** is clean and in a good state of preservation to ensure pressure tightness during testing.

If the **Pressure Gauge Probe** is damaged, we recommend shipping the complete tester to **CPF Industriale** to be repaired and checked for correct operation.

• Electrical CONNECTIONS:
Make sure that dust or liquids DO NOT enter the USB connector.

• BATTERY:

If the tester is not to be used for a long period of time, the lithium battery should be recharged regularly (at least every 3 months), as a complete discharge will damage the battery.

• PRINTER:
If the printer is not to be used for long periods, remove the lithium battery.

• CLEANING the tester:
Use a cloth moistened with warm water to clean the tester.

Under no circumstances should aggressive products such as thinners, alcohol, etc. be used, as these could damage or remove the gumming treatment of the shell itself or ruin the protective glass of the display.

INFORMATION & WARNINGS FOR USE

Please note that failure to carry out maintenance may affect the operation of the product and therefore does not guarantee its proper functioning. On request, CPF Industriale can provide periodic verification and calibration with the issue of a calibration report.

CPF Industriale shall not be held liable if the product is modified or used improperly, or if it is used outside the rated operating limits or for applications other than those for which it was designed.

The choice and use of the product is the sole responsibility of the individual operator, who must comply with current accident prevention and safety regulations. The product may not be used in areas where flammable gases may be present in the environment or in ATEX areas. The regulations, laws etc. quoted are those in force at the time of publication.

However, all applicable national regulations in the user's country must be complied with.

The information in this manual is accurate and up-to-date at the time of publication and is the result of continuous research and development. The specifications of this product and the information in this manual are subject to change without notice.

⚠️ PRESSURE TESTS MUST ONLY BE CARRIED OUT BY QUALIFIED AND AUTHORISED PERSONNEL IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE STANDARDS.
THE OPERATOR IS RESPONSIBLE FOR UNDERSTANDING AND CORRECTLY APPLYING THE STANDARDS. DEPENDING ON THE TEST SELECTED, THE FORMULAE AND CALCULATIONS PERFORMED BY THE TESTER COMPLY WITH THE RELEVANT STANDARDS UP TO THE DATE OF MANUFACTURE.
THE ADDITION OF FURTHER TESTS OR ANY UPDATES TO STANDARDS OR OTHER FEATURES OF THE TESTER WILL BE SUBJECT TO A FIRMWARE UPDATE.

ⓘ *All parameters preset in the tester are based on Italian (UNI) and European (EN) standards. If the tester is used abroad or for different standards, the test parameters can be changed within the limits set for each type of test.*
For any clarifications, please contact **CPF Industriale***.*

Note: ....
....
....
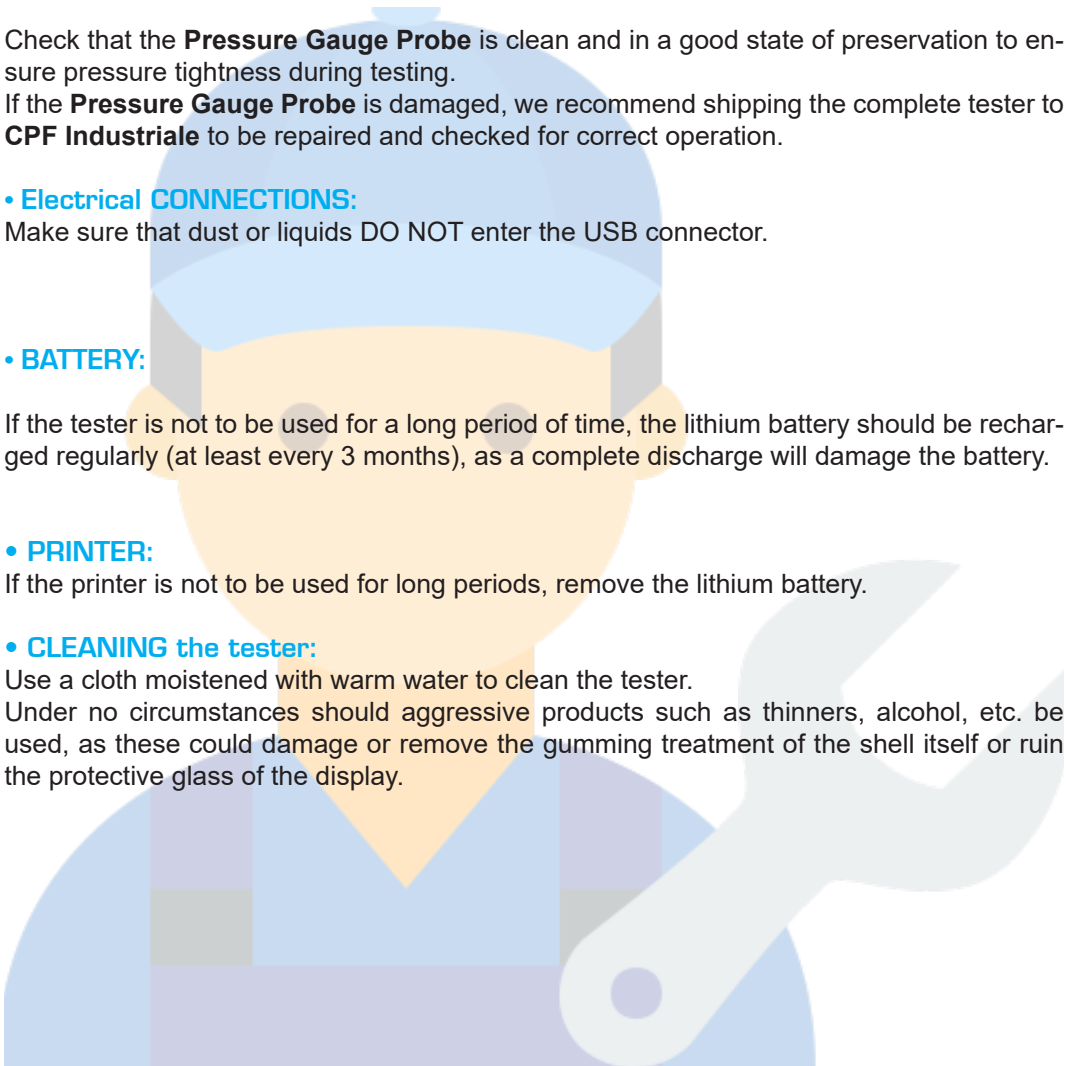..
....
....
....
....
....
....
....
....
....
....
....
....

TECHNICAL CHARACTERISTICS	
Pressure Scale	0 ÷ 35 bar
Resolution	0,01 bar
Accuracy	±1% fs
Display	Colour graphic 240x 320 pixel touch screen
Battery	Li-ion 3.6Vdc 5800mAh
Average Battery Life	10/12 ore
Battery Recharge Time	4 hours
Pneumatic Connection	M10x1
Weight with Case	2,7 Kg
Tester Weight	1 Kg
Tester Dimensions	190mm x 80mm x 42mm + Probe (210mm)
Printer	External Bluetooth paper width 58 mm
Power supply	External power supply 90-230V AC for charging or direct power supply via USB-C cable and mini USB-B cable for printer charging.
Operating temp.	-10 to +50 °C
Storage Temperature	-20 to +55 °C
Max Applicable Pressure	65 bar
Protection Rating	IP40

CE

MADE IN ITALY

INSTRUCTION LEAFLET
PAPER COLLECTION
22 PAP
Check the regulations of your municipality
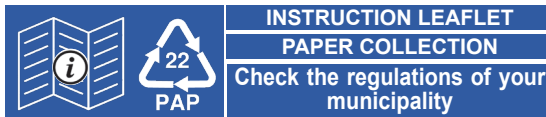
Directive 2012/19/UE (Waste Electrical and Electronic Equipment - WEEE):
Information for users:
The crossed out wheeled bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream. To prevent possible harm to the environment or human health please separate this product from other waste streams to ensure that it can be recycled in an environmentallysound manner. For more details on available collection facilities please contact your local government office or the retailer where you purchased this product.

WEEE

CPF GROUP ®

CPF INDUSTRIALE
CPF Industriale
via E.Fermi, 98 - 25064
Gussago (BS), Italy
Tel.+39 030 310461

cpfgroup.it

The manufacturer reserves the right make any aesthetic or functional change without notice and at any time.