



USER MANUAL

ProBox



ProBox

INSTRUCTION MANUAL

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ProBox - Static environmental pump model

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ProBox - Modelo bomba personal



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1. DOCUMENTARY TRACEABILITY

Ref. current doc	ProBox
Manual type	User manual
Date	--

REVISION HISTORY			
Ref. new doc.	Descripción	Autor	Fecha
Version 01	User Manual	Proyecsa	01/06/2022
Version 02	User Manual	Proyecsa	18/05/2023
Version 03	User Manual	Proyecsa	05/10/2023
Version 04	User Manual	Proyecsa	01/03/2025

2. GENERAL INFORMATION

2.1. Manufacturer

Business name	PROYECOSA CONTROL TÉCNICO S.L.		
Country	España		
Address	Pol. Ind. Canyada dels Codonyers. Calle 11 N-5, nave 27	Provincia	Valencia
Town	Picassent	CP	46220
Contact	soporte@proyecsa.es		
Web	www.probox.es		



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2.2.CE Marking Plate



You can locate the CE marking inside the equipment





2.3.Disclaimer

The manufacturer of the product DECLARES, under its sole responsibility, that:

The ProBox Equipment complies with the following guidelines and standards:

Guidelines:

Directive 2006/42/CE

Directive 2014/30/UE

Standards:

UNE EN ISO 12100:2012

UNE EN ISO 60204:2019

UNE EN IEC 61000:2019

UNE EN 60529:2019

The manufacturer declines any responsibility for those affected components and/or functions that have generated damage related to improper use of the equipment and without respecting the manufacturer's recommendations.

The manufacturer declines any responsibility in the event of modifications to the equipment without the manufacturer's approval, whether by substitution, repair or manipulation of any of its components.

The manufacturer declines any responsibility in the event that there is moisture inside the equipment, breaks, perforations or any other damage caused by oxidation and/or temporary wear of any component. All materials have been designed to avoid oxidation under normal conditions of use, according to the recommendations described in this manual. Removal of the security seal or incorrect handling of the equipment will void any type of warranty.

The Smartphone application will only request permissions to search for nearby devices and permissions to use Bluetooth. The models with sensor will request permissions to access files only to manage the internal database of the application and the download of the sample data obtained.

The smartphone application does NOT collect data of any kind except those that are exclusive and necessary for the use of the application and therefore manageable by the user himself. It does NOT collect personal and/or sensitive user information. The manufacturer has no control over the use of the application and therefore CANNOT share it with third parties.

Picassent, a 1 de Marzo de 2025

Proyecsa Control Técnico SL.

PROYECSA CONTROL TÉCNICO S.L.
C.I.F. B97702559
P. I. CANYADA DELS CODONERS
Calle 11, Bloque 5, Nave 27
46220. PICASSENT (Valencia)



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3. ABOUT THIS MANUAL

This document will provide you with the necessary information for the correct use of this equipment. Before putting the equipment into operation, read this manual carefully and in case of any problem for which the indications in this manual are not sufficient, please contact the manufacturer, who will inform you properly.

This user manual must help the user to get to know the equipment, allowing it to be used correctly and safely. Keep it in a place known to users throughout the machine's operating life. The manufacturer will not be in any way responsible for incidental or consequential damages that occur as a result of the use of this manual or the products described in it.

This documentation serves as instruction. Install and start using the product only if you have read and understood this document. Save the document for future reference.

The images contained in this documentation do not necessarily correspond to the scope of delivery. Drawings and illustrations do not necessarily retain their scale.

4. EQUIPMENT DESCRIPTION

4.1. General description

Air absorption pump for the sampling of chemical agents in air.

ProBox is a brand of portable battery-powered devices designed for air sampling. They are two models designed for a static and personal environment. The third model is also designed for a static environment that also allows the collection of data on particulate matter and the monitoring of air quality in real time.

ProBox is robust and resistant to shocks, oxidation and washable, which makes it ideal for decontamination and use in difficult conditions. The use of external connections or joints has been minimised so that the box is as watertight as possible. As long as the device is switched off from the external button and the plugs recommended by the manufacturer are used, ProBox is resistant to moisture and dust, in an IP64 environment.

It has an interchangeable input jack to connect it to different types of samplers. It also has a handle to facilitate transport, a charging connector for the battery and an On/Off button to turn the device on and off.

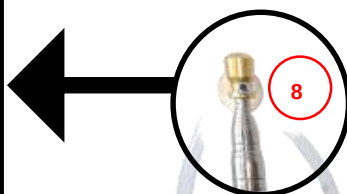
It includes a smartphone application that allows you to regulate the air flow, turn the pump on and off, schedule a temporary auto-off and display a history of the measurements made, allowing the user greater control and monitoring of the device from outside the contaminated area. They are remarkable characteristics for greater comfort in the use of the device, either in a field or laboratory environment.



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ProBox - Static environmental pump model





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ProBox - Static environmental pump model with sensor

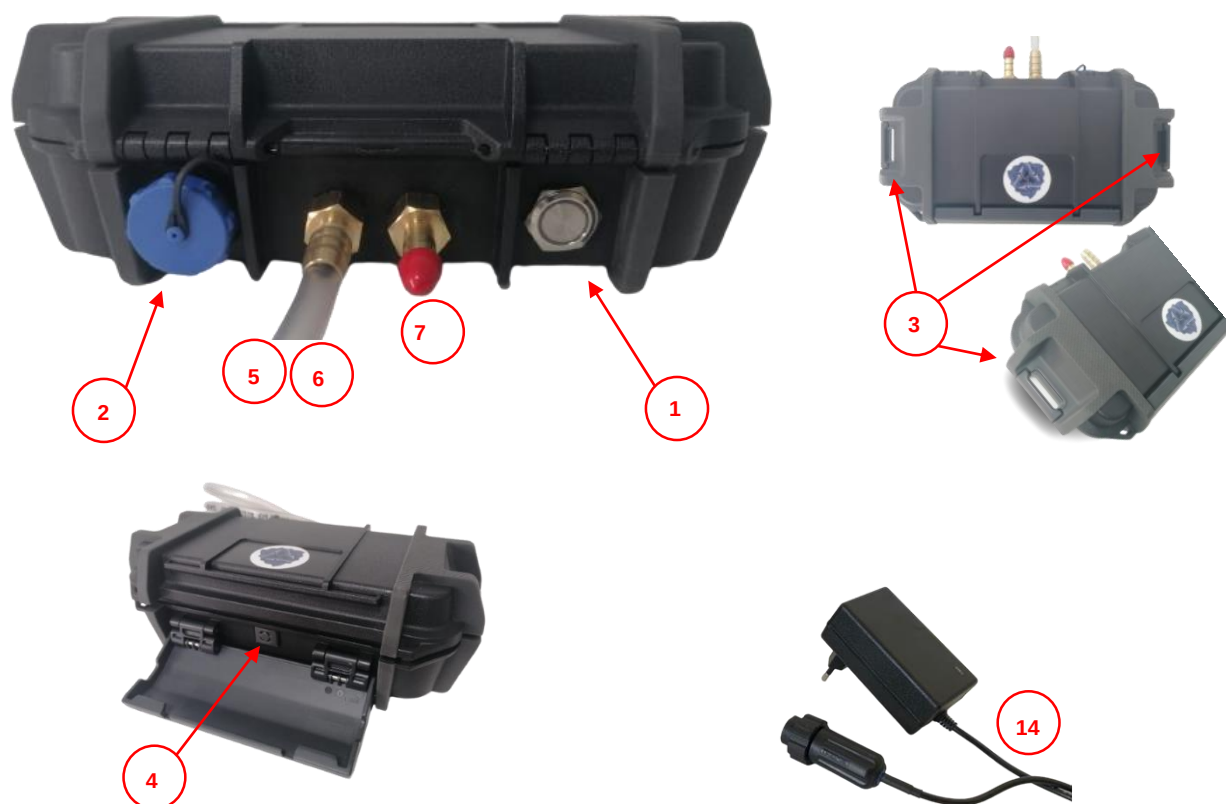




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ProBox - Personal pump model



1	On/Off button
2	Charging connector
3	Handle for attachment and transport
4	Pressure compensation valve
5	Air inlet. Connection with flexible tube
6	Flexible tube. Connection for sampler with filter
7	Air outlet
8	Telescope for height measurement
9	Sampler holding magnet
10	Air intake sensor. Quick connection fitting
11	Metallic sampler without filter
12	Antistatic tube
13	Sensor cap and sealing accessories for sampler with 25 and 37mm filter
14	Battery Charger 12.6V – 2A



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4.2. General specification. DATA SHEET

Component	ProBox static environmental pump
Dimensions (mm)	230x190x110
Weight (Kg)	2.5
Battery type	Lithium polymer cells
Battery life	"10 Ah. Approx. 5 hours with work at maximum power. Approx. 15 hours with work at 50% power (8 LPM with filter)"
Casing	Polypropylene. Resistance to pressure and impacts. Water resistance IP67 with plugs provided by the manufacturer.
Engine	EPDM double membrane brushless motor
Maximum flow rate without filter	13 LPM
Maximum pressure	1.8 bar
Maximum empty	-660 mbar
Maximum flow rate with 0.8 - 1.2 μ m pore sampler.	" $\approx$ 12.0 LPM. Under conditions of 25°C, 1020 hPa, Variations of 10% may exist according to the physical structure of each filter. All products are tested to reach a minimum of 11.0 LPM in these conditions."
Operating temperature	Between 0 and 50 degrees Celsius
Bluetooth range	Minimum of 10 meters in normal conditions
Air inlet. Connector for sampler	6mm inner flexible tube
Stability	The motor remains stable in all battery states (full, medium or discharged). ProBox is designed to be stable from the beginning to the end of the measurement, with a deviation of less than 5% of the selected flow, for flows > 2 l/min.
Error control	ProBox stores the information every 60 seconds. It has a history where you can check the status and duration of the measurement, be able to check battery errors and engine operation.
Extensible	Maximum height 1.80 meters
Humidity conditions	Environmental measurement in an environment with relative humidity higher than 90% would not be indicated. (Depending on the applicable regulations)



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Component	ProBox static environmental pump with sensor
Dimensions (mm)	230x190x110
Weight (Kg)	2.5
Battery type	Lithium polymer cells
Battery life	"10 Ah. Approx. 5 hours with work at maximum power. (with filter) Approx. 15 hours with work at 50% power (8 LPM with filter)"
Casing	Polypropylene. Resistance to pressure and impacts. Water resistance IP67 with plugs provided by the manufacturer.
Engine	EPDM double membrane brushless motor
Maximum flow rate without filter	13 LPM
Maximum pressure	1.8 bar
Maximum empty	-660 mbar
Maximum flow rate with 0.8 - 1.2 μ m pore sampler.	" $\approx$ 12.0 LPM. Under conditions of 25°C, 1020 hPa, Variations of 10% may exist according to the physical structure of each filter. All products are tested to reach a minimum of 11.0 LPM in these conditions."
Operating temperature	Between 0 and 50 degrees Celsius
Bluetooth range	Minimum of 10 meters in normal conditions
Air inlet. Connector for sampler	6mm inner flexible tube
Stability	The motor remains stable in all battery states (full, medium or discharged). ProBox is designed to be stable from the beginning to the end of the measurement, with a deviation of less than 5% of the selected flow, for flows > 2 l/min.
Error control	ProBox stores the information every 60 seconds. It has a history where you can check the status and duration of the measurement, be able to check battery errors and engine operation.
Extensible	Maximum height 1.80 meters
Humidity conditions	Environmental measurement in an environment with relative humidity higher than 90% would not be indicated. (Depending on the applicable regulations)



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Component	ProBox personal pump
Dimensions (mm)	220x110x70
Weight (Kg)	1.0
Battery type	3.5 Ah. Lithium polymer cells
Battery life	Approx. 5 hours with work at maximum power (with filter)
Casing	Polypropylene. Resistance to pressure and impacts. Water resistance IP67 with plugs provided by the manufacturer.
Engine	EPDM double membrane brushless motor
Maximum flow rate without filter	5.0 LPM
Maximum pressure	1.8 bar
Maximum empty	-640 mbar
Maximum flow rate with 0.8 - 1.2 μ m pore sampler.	" $\approx$ 4.0 LPM. At 25°C, 1020 hPa conditions. Variations of 10% may exist according to the physical structure of each filter. All products are tested to reach a minimum of 3.5 LPM in these conditions."
Operating temperature	Between 0 and 50 degrees Celsius
Bluetooth range	Minimum of 10 meters in normal conditions
Air inlet. Connector for sampler	6mm inner flexible tube
Stability	The motor remains stable in all battery states (full, medium or discharged). ProBox is designed to be stable from the beginning to the end of the measurement, with a deviation of less than 10% of the selected flow rate, for flow rates $\leq$ 2 l/min.
Error control	ProBox stores the information every 60 seconds. It has a history where you can check the status and duration of the measurement, be able to check battery errors and engine operation.

Component	ProBox Charger
AC input voltage	100 V – 240 V / 50-60 Hz
Power	20W
DC output voltage	12,6 V
Maximum output intensity	2 A



5. SAFETY INSTRUCTIONS

5.1. Equipment intended use and Application limits

Absorption pump for static sampling of chemical agents in air.

The use of the equipment will be limited to that stipulated, the part or parts that will be assembled on it will only be those for which it has been designed, using the procedures described in the instructions for use of this document.

5.2. Personal protection Equipment (PPE)

These PPE are recommended if it is used in an area where the presence of contaminants is suspected.

Table 1.

PPE according to the applicable regulations.

1	Respiratory protection		To avoid inhalation of chemical elements
2	Protective clothing		To avoid direct contact with chemical elements
3	Protection gloves		To avoid direct contact with chemical elements
4	Security boots		To avoid direct contact with chemical elements
5	Eye protection		To protect from direct contact between the eyes and chemical elements



5.3. Use restrictions

The owner of the equipment is responsible for restricting the use and maintenance of the equipment to authorised and qualified personnel for that purpose.

Personnel must be instructed on any hazards present before starting to use the equipment.

ProBox must always be used with an external filter (sampler) to avoid internal damage due to obstruction, accumulation of waste or polluting agents.

Do not use if any of its components are broken, do not use if there are cracks, leaks or any other damage. ProBox is designed to be watertight and to be washable and decontaminated. The manufacturer is not responsible in case of moisture leakage or any other product harmful to the equipment.

Do not use near heat sources. Do not use near large sources of electromagnetic radiation. The Bluetooth communication system may not work properly.

5.4. Safe disposal of equipment as waste

Once the equipment has reached the end of its useful life, it must be disposed of correctly. The manufacturer of the equipment is not responsible for the problems and dangers derived from the use of the equipment beyond its useful life.

Given that the location of the equipment is located in the Valencian Community, the guidelines set out by DECREE 55/2019, of April 5, of the Council, which approves the review of the Comprehensive Waste Plan of the Valencian Community, must be followed.

You must ensure that all materials that can be recycled end up in centers where they are recycled.

In the event that the removal of the equipment should be done outside the designated territory, the rules and laws that apply there must be followed.



5.5.Restrictions and/or recommendations for safe use

The owner of the equipment has the obligation to supervise the optimal condition of the operation of the unit (defects, visible damage and any other problem that affects its operation).

DO NOT use the device while it is charging. **TO CHARGE THE DEVICE KEEP THE ENGINE OFF. SWITCH OFF THE EXTERNAL BUTTON DEVICE BEFORE STARTING CHARGING.** Using the device while charging will increase the degradation and generate damage that will seriously affect the operation.

The ProBox charger component is NOT watertight. Do not recharge the battery during the decontamination or washing process and do not expose the charger to contaminated places.

Use only battery chargers recommended by the manufacturer. The use of a non-recommended charger will increase the degradation of the battery and generate damage that will seriously affect the operation of the equipment.



6. RECOMMENDATIONS FOR TRANSPORTATION AND STORAGE

6.1. Methods of lifting, handling and transport

Both for its transport and for the installation of the equipment in its final location can be done manually. ProBox has been designed to be portable. It is recommended to follow the following directions for transport:

- Transport the equipment always closed and secured by the handle.
- While not in operation, the equipment must always keep the plugs provided by the manufacturer in the air inlet and outlet.
- In case of transporting it to great heights or by plane, the equipment has a pressure compensation valve.

6.2. Storage requirements after use or for an extended period

- Disinfect and dry it after each use.
- While it is not in operation, the equipment must always maintain the plugs provided by the manufacturer in the air inlet and outlet.
- Always keep the caps. The equipment has IP67 resistance. Resistant to moisture and dust.
- The battery must be kept fully charged if the equipment is to be stored for an extended period.
- The equipment must be stored in a cool and dry place.
- Stay away from abrasive chemical products against plastic and metals.
- Keep away from heat sources.



7. EQUIPMENT USE

7.1. Necessary elements

- ProBox
- Charger
- Sampler (with filter)
- ProBox is designed to be configured and/or consulted via mobile phone. Once configured, it can only be used from the On/Off button for field work. Each time the button is turned on the device will keep the last configuration.

7.2. Before each use

It is advisable to keep the equipment on a full battery charge. Use charger provided by the manufacturer with 12.6V and 2 Amps.

Before turning on the engine of the equipment, the caps must be removed to unlock the air inlet and outlet.

Check the correct placement of the flexible air inlet tube.

For safety, it is recommended to turn off the equipment before each decontamination and place the caps, to avoid the entry of contaminants or liquids that could damage the interior of the equipment.

In order not to contaminate the pump and avoid the entry of particles that could obstruct it, it must be programmed and/or calibrated in a clean area.

ProBox must always be used with an external filter (sampler) to avoid internal damage due to obstruction, accumulation of particulate material or chemical agents.

The user of the equipment has the obligation to supervise the optimal condition of the operation of the unit (defects, visible damages, leaks and any other problem that affects its operation).

The ProBox charger component does NOT stall. Do not recharge the battery during the decontamination or washing process and do not expose the charger to contaminated places.



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Air inlet and outlet plugs.

Remove before each use and place before each decontamination.



The air inlet and outlet connectors have 360° rotation to be oriented according to needs.



Air outlet plug.

Remove before each use and place before each decontamination.



Sampler placement example with filter.



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Sampler placement example with filter in static ProBox models

For measurements where it is necessary for the samplers to be elevated from the ground, ProBox has a built-in extender.

To facilitate handling when placing the sampler, it is possible to stick and take off the rubber tube from the tip of the extender.

The connection is made with a neodymium magnet on a flat steel surface. This even allows you to orient the sampler according to needs.





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The ProBox models with sensor have two air inlets. The antistatic tube is connected to a quick pneumatic fitting, which allows it to be removed and connected to use the device both for a sensor measurement and for a traditional environmental measurement.

In contaminated environments, the antistatic tube may contain dangerous particles. You must save it as controlled waste material.



The ProBox models with sensor have a hole where the 25 and 37mm samplers are located.

Keep the sensor hole closed while not in use. The interior may contain contaminated particles. It should only be opened in conditioned spaces and with the necessary protective equipment. The cap must remain closed during the decontamination and/or maintenance processes.



- 1 Insert sampler with filter
- 2 Screw on the accessory to ensure the tightness of the filter
- 3 Connect transparent rubber tube (air inlet)



7.3.First installation. Mobile phone app

ProBox is managed from a single application for Android systems. The installation process is only carried out the first time on each Android device that is intended to be used.

The application only requires the following permissions for its operation:

- Permissions to install applications from unknown sources.
- Permissions to search for nearby devices.
- Permissions for the use of Bluetooth.
- Permissions to access files only to manage the internal database of the application and the download of the sample data obtained (only in models with sensor).

Step 1. Turn on the ProBox pump from the external button.



Step 2. Log in to the application with the credentials provided by the manufacturer.

Step 3. Add ProBox to the list of paired Bluetooth devices. For this you can use the button to link a new ProBox, which will open the menu to link a new Bluetooth device to your device.

Look for the new ProBox in unlinked devices, in the “available devices” “rarely used devices” or “unlinked devices” section.

Use the Bluetooth pairing password generated during manufacturing.

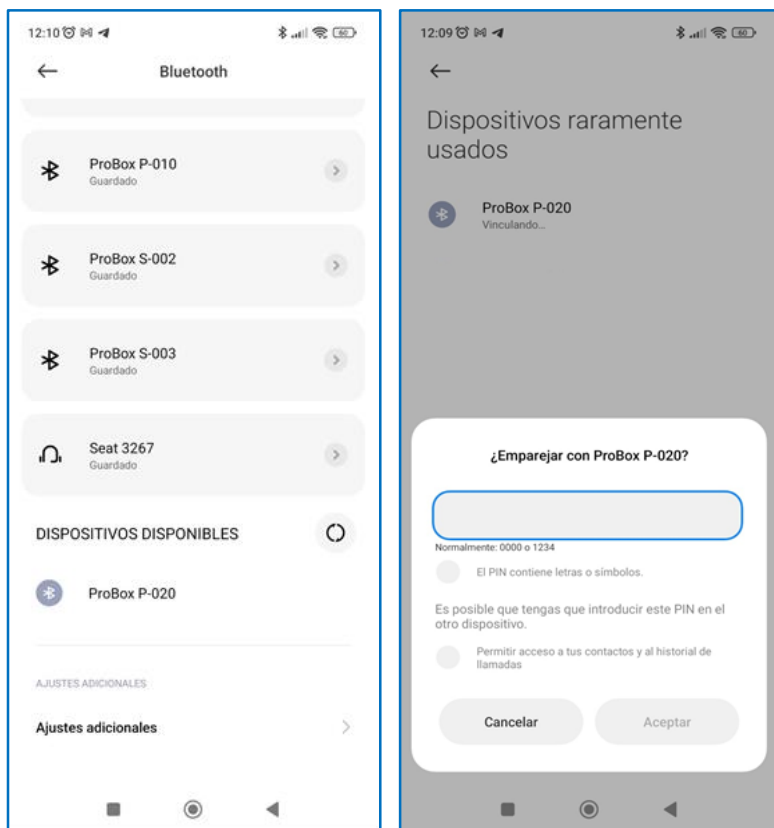
If you do not establish communication, use the link password provided by the manufacturer.

Step 4. Once connected, the ProBox device will appear in the application list.

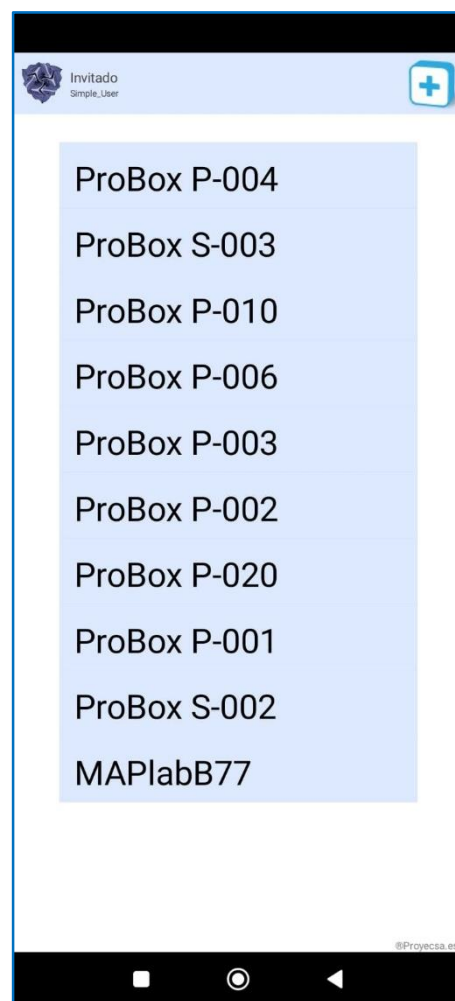


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STEP 3



STEP 4



7.4. Use

ProBox is managed from a single application for Android systems. The application must be installed and accessed with the credentials provided by the manufacturer.

To be able to use the Android application, you must have previously connected the ProBox pump for the first time. Description in the section "6.3 First installation"

Step 1. Turn on the ProBox pump from the external power button.

Step 2. Log in to the application with the credentials provided by the manufacturer.

Step 3. Select the ProBox device from the list.

Step 3. From the application you can perform the following functions:

- "Wait" or "Standby" mode. This function only activates or deactivates the motor remotely, without using the external button. ProBox will stay on and with Bluetooth active.
- Regulate the engine (vacuum intake air flow).
- Check the duration of the measurement.
- Control the auto-off time. Only a maximum of 4 hours is allowed. For an indeterminate measurement, the indicated time must be zero.
- Check the status of the battery as a guide. Depending on the intensity of the motor it can vary, it is recommended to check it with the motor in standby mode (disabled).
- Check the synchronisation date and time of the device, as well as synchronise with the current date and time. This function is only available if the engine is deactivated in "wait" or "Standby" mode.
- See the history of the last measurements and the error status.

ProBox is designed to be configured and/or consulted via Smartphone.

Once configured, it can only be used from the On/Off button for field work. Every time you turn on the external button, it will start with the last configuration.



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Auto off time
information in
minutes

Set number of HOURS for
auto shutdown

Set number of MINUTES for
auto shutdown

Only a maximum of 24 hours of continuous measurement is allowed.
For an indefinite measurement, it must indicate 0 hours and 0 minutes



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The history shows information about the time and date when the measurement was initiated.

It also shows information on the engine power with which the measurement was started and ended.

During the measurement, ProBox saves the data every 60 seconds.

In the event of engine malfunction or battery wear, the duration will indicate the last minute in which it was still operating correctly.

ERROR LEGEND:

– NO ERROR

ProBox was deactivated from the application, standby mode.

– NO ERROR. AUTOSAVED

ProBox is turned off from the outside button. The duration that ProBox was kept on will be recorded.

– NO ERROR. PROGRAMMED AUTO OFF

ProBox turns itself off at the indicated minutes. The duration that ProBox was kept on will be recorded.

– AUTOSAVED. BATTERY EMPTY

ProBox was deactivated due to battery drain. The duration that ProBox was kept on will be recorded.

– ENGINE DIFFERENCE ERROR

If the motor power is changed during the measurement, ProBox will show this error.





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7.5. After each use

The ProBox equipment must be decontaminated after each use, especially if it has remained in contaminated areas. Decontamination with a water shower is recommended. Abrasive products, solvents or alcohols must not be used to avoid the degradation of the components.

Before decontamination, turn off the device from the button on the casing. To ensure tightness during decontamination of the equipment, the air inlet and outlet must maintain the plugs provided by the manufacturer. Do not turn on the device while the caps are in place.



Air inlet and outlet plugs.

Remove before each use and place before each decontamination.



Sensor hole plug.

Keep the sensor hole closed while not in use.
The interior may contain contaminated particles.

It should only be opened in conditioned spaces and with the necessary



7.6. Battery charge

After prolonged use, it is recommended to recharge the battery. For this, ProBox has a watertight connector. The cap must be unscrewed to be able to connect the charger.

The ProBox charger has a led indicator. First connect the charger to the ProBox device, the green led will indicate that it has been connected correctly. It is an indication that the battery is working, but not fully charged.

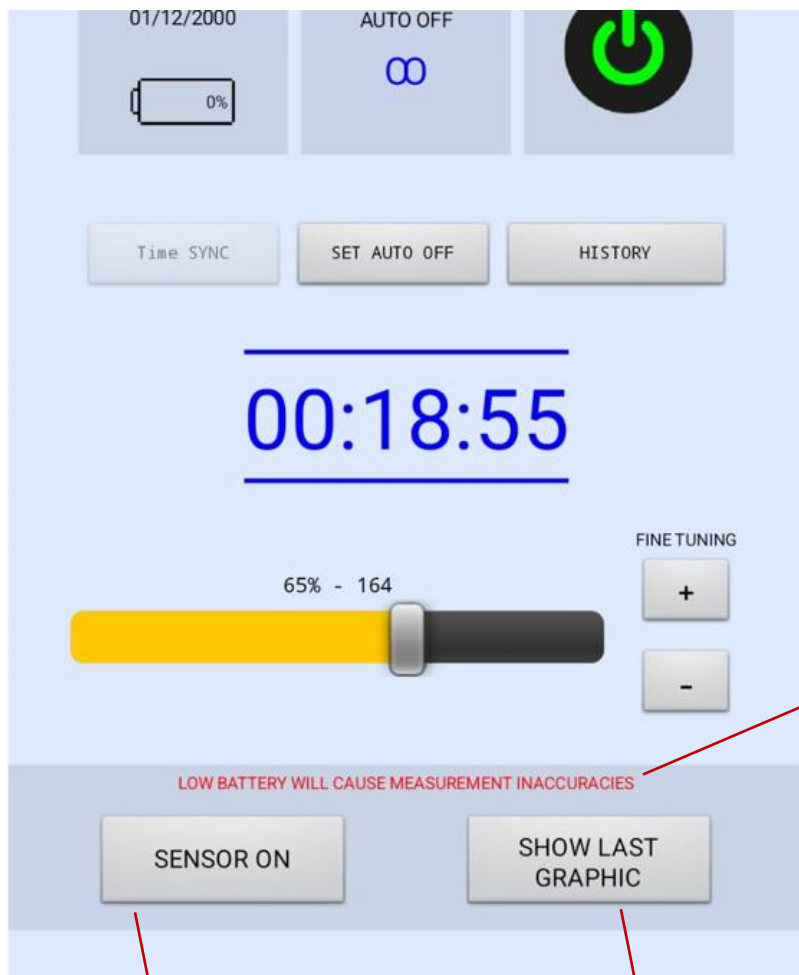
Then connect the charger to a 220V alternating current source. The indicator will show red while charging. Once the battery is fully charged, the indicator will show green.



CONECTOR DE CARGA DE
BATERÍA



7.7. Use of the static model with sensor



Low battery status warning.

To avoid erroneous readings, the sensor must be used with a fully charged battery

Turn on Sensor

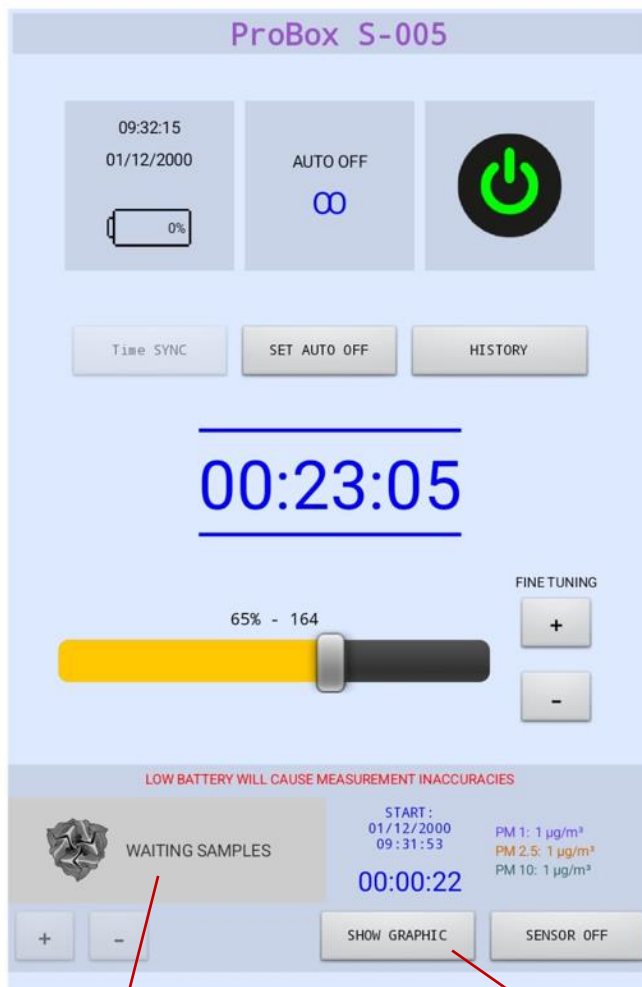
Show last saved graphic

The sensor can only be used while the engine is active



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Colour indicator states:

- Gray
- Green
- Yellow
- Red

Open real-time chart



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REAL TIME GRAPH
- Horizontal axis in seconds
- Vertical axis u/gm3

Total time line in the different states of the colour indicator

Real-time update of particles per second

Turn sensor on/off

Close chart

Adjustment of the vertical axis of the graph

-Sensor start date/time
-Duration in real time



7.8.Adjustment operations

The user must use an external flowmeter to be able to calibrate the equipment before each measurement. Due to the pressure and temperature conditions in the environment, the flow conditions may vary.

To guarantee a correct operation of the air flow, the equipment must be checked regularly. Check with the manufacturer.

7.9.Troubleshooting

7.9.1.Malfunction identification and correction

Check the following table.:

	Identification	Correction
1	The equipment does not perform the measurement	Check the battery status
2	It is not possible to connect from the device to the ProBox equipment	<p>Verify that the equipment is switched on, that the distance is within acceptable limits and that there is no nearby electromagnetic noise.</p> <p>Verify that the Bluetooth of the equipment has been linked. You can unbind the Bluetooth ProBox and rebind it.</p> <p>Verify that the ProBox is not connected to another device. ProBox cannot be controlled from two devices at the same time.</p> <p>Turning off ProBox from the external button will cut the remaining connection with any device.</p>

7.9.2.Repairs

It is only recommended to replace parts provided by the manufacturer and it is only recommended to handle them by personnel authorised by the manufacturer. The manufacturer is not responsible if the ProBox equipment has been tampered with. The manufacturer is not responsible for damages caused by wear and tear of the elements, humidity, breakages, or damage caused by improper use. All external components have been sealed with high-performance adhesives, resistant to adverse environmental conditions (humidity, dust and sunlight). The manufacturer is not responsible for any alteration and/or degradation of any component due to improper use of the device. In case of doubt, contact the manufacturer.



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8. PRODUCT MAINTENANCE

To guarantee correct operation of the equipment, it must be reviewed regularly and a maintenance process must be carried out. Check with the manufacturer.

Element	Inspection	Preventive/corrective action	Warnings	Frequency
ProBox	Cleaning / decontamination	Decontaminate the equipment if it has been in a contaminated area.	The equipment must NOT be in operation. The air inlet and outlet must retain the original plugs.	After each use
Electric	Battery charge	Keep the battery charged.	Prevent the battery from discharging completely.	After each use
ProBox and Charger	Visual: accumulated dirt	Avoid the accumulation of dust and dirt. Suction and wet wipe.	The equipment must be without supply and without operation.	After each use
Mechanics	Duct cleaning	Dry cloth or stick.	The equipment must NOT be in operation. The air inlet and outlet must retain the original plugs.	Weekly



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9. ACCESSORIES, CONSUMABLES AND SPARE PARTS INCLUDING

Element	STATIC	MODEL WITH SENSOR	PERSONAL
Sampler with filter			
Air inlet/outlet plugs	✓	✓	✓
Metallic sampler without filter		✓	
Antistatic tube		✓	
Sealing accessories for sampler 25 or 37mm		✓	
Belt / Carabiner / fasteners			