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TPS2 OPERATING MANUAL

INTRODUCTION

Dear Customer,

We would like to thank you for choosing a TEXA product for your workshop.

We are certain that you will get the greatest satisfaction from it and receive a great deal of help in your work.

Please read through the instructions in this manual carefully and keep it for future reference.

Reading and understanding the following manual will help you to avoid damage or personal injury caused by improper use of the product to which it refers.

TEXA S.p.A reserves the right to make any changes deemed necessary to improve the manual for any technical or marketing requirement; the company may do so at any time without prior notice.

This product is intended for use by technicians specialized in the automotive field only. Reading and understanding the information in this manual cannot replace adequate specialized training in this field.

The sole purpose of the manual is to illustrate the operation of the product sold. It is not intended to offer technical training of any kind and technicians will therefore carry out any interventions under their own responsibility and will be accountable for any damage or personal injury caused by negligence, carelessness, or inexperience, regardless of the fact that a TEXA S.p.A. tool has been used based on the information within this manual.

Any additions to this manual, useful in describing the new versions of the program and new functions associated to it, may be sent to you through our TEXA technical bulletin service.

This manual should be considered an integral part of the product to which it refers. In the case it is resold the original buyer is therefore required to forward the manual to the new owner.

Reproduction, whole or in part, of this manual in any form whatsoever without written authorization from the producer is strictly forbidden.

The original manual was written in Italian, every other language is a translation of the original manual.

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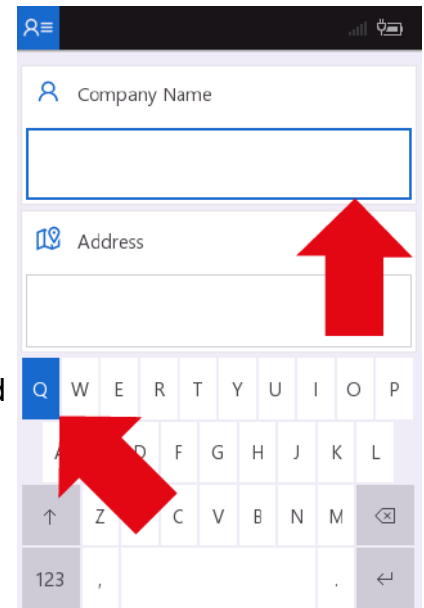
1.3 Data Entry

Some functions require data entry by the operator.

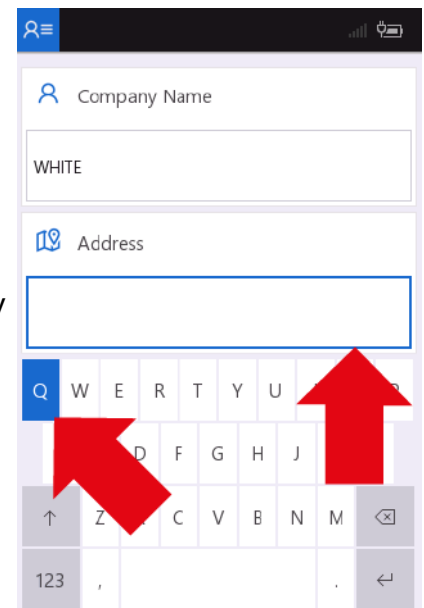
These functions display a keyboard that can be used to enter the requested data.

Proceed as follows:

1. Select the field where you wish to enter the data.
2. Press **OK** to make the field editable.
You may now use the display keyboard.
3. Select the desired letter and press **OK**.
4. Repeat the operation until the requested data is entered completely.



5. Press **←** to deselect the field that is being edited.
6. Using the directional arrows, move to another field that you may wish to edit.
7. Repeat the operations described above

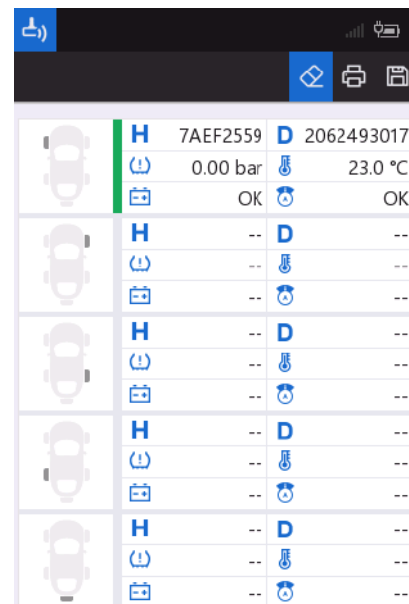


2 COMMON FUNCTIONS

Some functions in the software are common to several tests.

The icons of these functions, when available, are aligned in a menu located in the upper part of the screen and they are generally not selected.




Proceed as follows:



1. Move to the common functions menu.
2. Select the function desired.
3. Press **OK**.

NOTE

To exit this menu, press  repeatedly until returning to the tyre selection.

Icon	Name	Description
	Delete	It allows you to delete the result of the test performed.
	Print	It allows you to print the displayed test result. Through the QR code in the print and using the Camera function, the stored report can be recalled automatically.
	Save	It allows you to save the displayed test result and enter the data related to the customer and the vehicle.

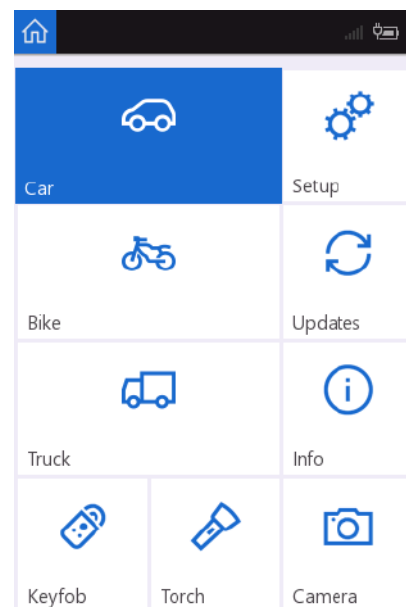
3 HOME









The software equipping **TPS2** is multi-environment and allows you to perform the diagnostic operations related to the **TPMS** system and the programming of the related sensors easily and professionally.


The screen below shows the software's **HOME**, that is the software's start screen.

Proceed as follows:

1. Select the desired function.
2. Press **OK**.



Icon	Name	Description
	Car	It allows you to access the functions related to the diagnosis and programming of the sensors installed in cars.
	Bike	It allows you to access the functions related to the diagnosis and programming of the sensors installed in bikes, scooters, etc.
	Truck	It allows you to access the functions related to the diagnosis and programming of the sensors installed in light and heavy commercial vehicles, trailers, etc.
	Settings	It allows you to access functions such as setting the display language, the units of measurement, etc.
	Update	It allows you to update the software.
	Info	It allows you to retrieve information about the software version installed.
	Remote control	It allows you to check the remote control signal quality for the door central unlocking.
	Flashlight	It allows you to activate the camera's flash light and use it as a flashlight. Press ← to exit the function.

	Camera	<p>It allows you to activate the camera that can be used to read the QR code on the printed report.</p> <p>Reading the QR code allows you to perform the automatic selection of the vehicle that the report refers to.</p> <p>Press ← to exit the function.</p>
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4 ENVIRONMENT: CAR, TRUCK, BIKE

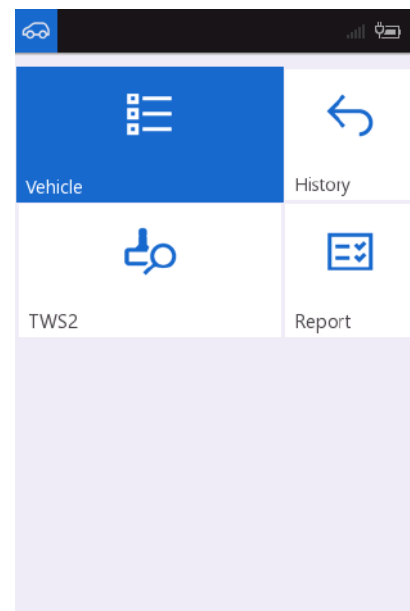
This function allows you to access the functions related to the diagnosis and the programming of the sensors installed in the vehicle categories belonging to the selected environment.





The environments of this software, even though they have been designed for significantly different vehicle categories, are all structured and operate the same way.

This allows the operator to easily switch from one of the installed work environments to another, using the same logic for selecting the vehicle, launching the functions, etc.

Proceed as follows:

1. Select the desired function.
2. Press **OK**.



Icon	Name	Description
	Vehicles	It allows you to select the vehicle on which you wish to work and access the diagnosis functions.
	History	It allows you to set the desired vehicle by choosing it from the list of the last 10 selections for which a test was performed.
	TWS2	It allows you to launch the Test function without needing to select the vehicle. For further information, see the Test chapter.
	Report	It allows you to access the list of vehicles for which there are reports. In the list you will also find the results of the tests performed through TWS2 .

4.1 Report

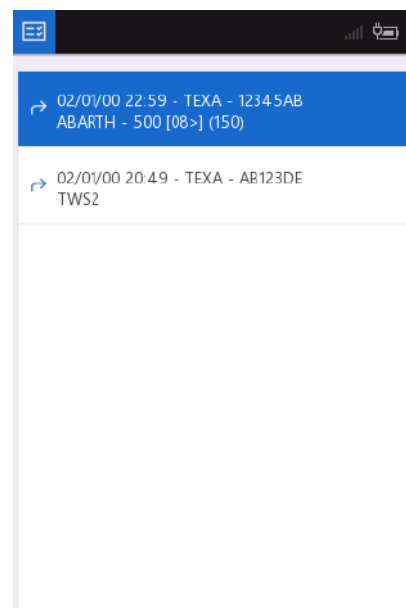
This function allows you to access the list of vehicles for which there are reports.

In the list you will also find the results of the stored TWS2 tests.

Proceed as follows:

1. Select the desired item.

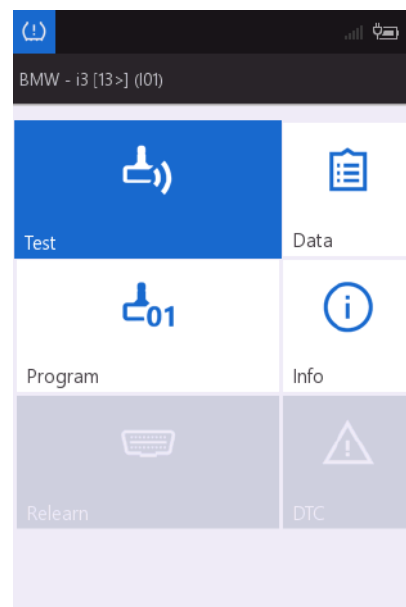
2. Press **OK**.



3. Select the desired item.

4. Press **OK**.

The stored data is displayed.



NOTE

If a TWS2 test has been selected, the test result is directly displayed.

5 VEHICLES - VEHICLE SELECTION

This function allows you to select the vehicle on which you wish to work and to access the diagnosis functions.

The selection is made by choosing among the options in the menus:

- *Make*
- *Model*
- *Variant* *

(*) *For some models only.*

These fields make up the **selection levels**.

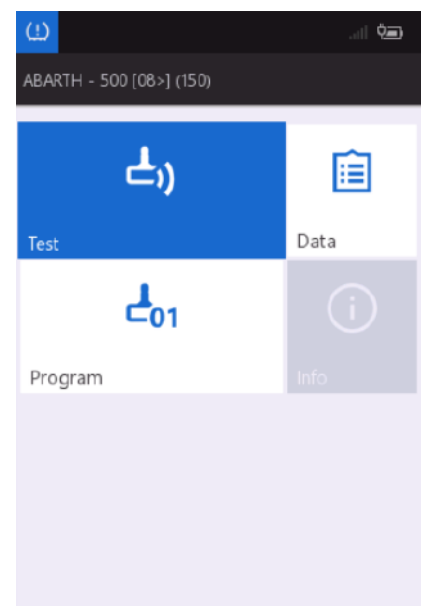
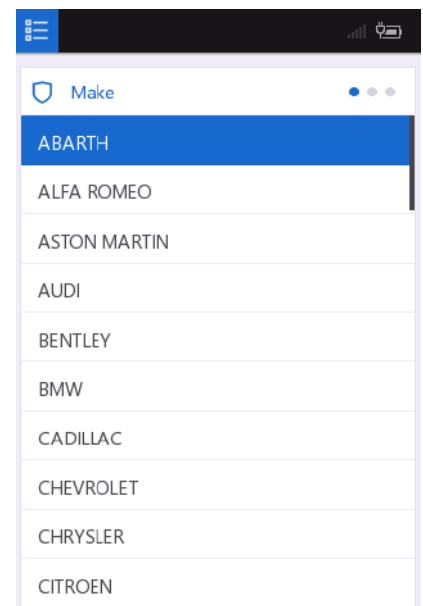
In order to go from one selection level to the next you must first complete the level you are currently in.

Example: you cannot select an item on the Model level if you did not select the Make first.






The **selection** is **complete** when an item has been selected for each level.

Proceed as follows:

1. Select the **Make**.
2. Press **OK**.
3. Select the **Model**.
4. Press **OK**.
5. Select the **Variant**.
6. Press **OK**.



The selection is complete.

Icon	Name	Description
	Test	It allows you to view the data detected by the device on the sensors.
	Sleep	It allows you to deactivate the tyre pressure sensors temporarily. This function is available only for the Bike environment.
	Programming	It allows you to launch the programming functions of the sensors.
	Data	It allows you to view the general information related to the sensors and to the sensor learning procedures carried out by the vehicle. A 3D image of the sensor type that can be rotated by pressing the directional arrows is available.
	Info	It allows you to display a sheet containing information and procedures useful to perform the test.

6 TEST

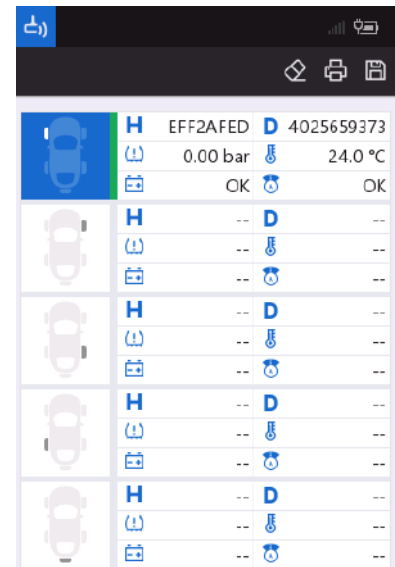
This function allows you to view the data regarding the sensors read by the device.

The software displays a series of outlines of the vehicle in which you may select the tyre that corresponds to the sensor you wish to test.

The procedure below is valid also for the TWS2 function.

Proceed as follows:



1. Select the desired tyre.
2. Press **OK**.
3. Place the device close to the valve of the tyre you selected.
4. Wait until the communication between the device and the sensor ends.
5. The test result is displayed.







NOTE



The test can be interrupted by pressing **←**.

The software graphically highlights the test result:

Icon	Result	Meaning
	Positive	The sensor provides all the requested information correctly.
	Negative	The sensor could not be found or does not provide all the requested information correctly. The software suggests moving closer to the sensor to repeat the detection.

If the test has a **positive result**, the following information is displayed:

Icon	Name	Description
	Hexadecimal ID	It indicates the sensor's ID in a hexadecimal value.
	Decimal ID	It indicates the sensor's ID in a decimal value.
	Pressure	It indicates the tyre pressure detected by the sensor. *
	Temperature	It indicates the tyre temperature detected by the sensor. *

	Battery	<p>It indicates the status of the sensor's battery:</p> <ul style="list-style-type: none"> • OK: <i>proper operation</i> • ERR: <i>battery low and must be replaced</i> • --: <i>no information received</i>
	Accelerometer	<p>It indicates the status of the sensor's accelerometer:</p> <ul style="list-style-type: none"> • OK: <i>proper operation</i> • ERR: <i>sensor damaged and must be replaced</i> • --: <i>no information received</i>

(*) The values are expressed in the set unit of measurement.

The availability of some data does not depend on the device.

7 SLEEP

This function is available only for the Bike environment.

This function allows you to deactivate the tyre pressure sensors temporarily.

The tyre sensors installed on BMW vehicles are able to detect and send information to the control unit even if the vehicle is stopped or turned off.

The vehicle just has to be moved or simply shaken.

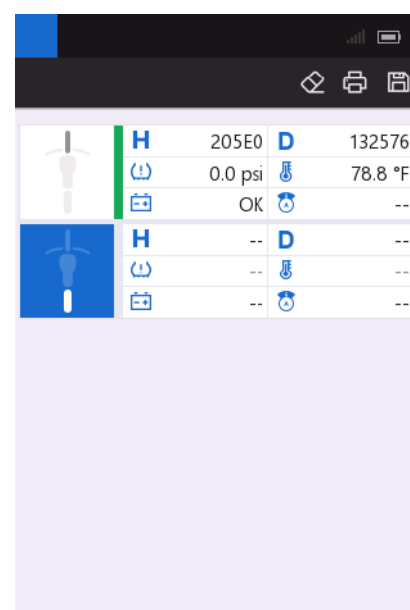
The temporary disabling procedure is therefore recommended when the vehicle must be transported or is close to systems that are sensitive to radio waves.

The disabling of the sensors is temporary: if the vehicle reaches a speed of approximately 30 km/h (18.6 mph) for at least 4 seconds, the disabling mode is removed and the sensors are re-enabled.

The software displays a series of outlines of the vehicle in which you may select the tyre that corresponds to the sensor you wish to disable.

Proceed as follows:



1. Select the desired tyre.
2. Press **OK**.
3. Place the device close to the valve of the tyre you selected.
4. Wait until the communication between the device and the sensor ends.
5. The test result is displayed.









NOTE:

The test can be interrupted by pressing .

The software graphically highlights the test result:

Icon	Result	Meaning
	Positive	The sensor provides all the requested information correctly.
	Negative	The sensor could not be found or does not provide all the requested information correctly. The software suggests moving closer to the sensor to repeat the detection.

If the test has a **positive result**, the following information is displayed:

Icon	Name	Description
	Hexadecimal ID	It indicates the sensor's ID in a hexadecimal value.
	Decimal ID	It indicates the sensor's ID in a decimal value.
	Pressure	It indicates the tyre pressure detected by the sensor. *
	Temperature	It indicates the tyre temperature detected by the sensor. *
	Battery	It indicates the status of the sensor's battery: <ul style="list-style-type: none">• OK: <i>proper operation</i>• ERR: <i>battery low and must be replaced</i>• --: <i>no information received</i>
	Accelerometer	It indicates the status of the sensor's accelerometer: <ul style="list-style-type: none">• OK: <i>proper operation</i>• ERR: <i>sensor damaged and must be replaced</i>• --: <i>no information received</i>

(*) *The values are expressed in the set unit of measurement.*

The availability of some data does not depend on the device.

8 PROGRAMMING

This function allows you to launch the sensor programming functions.



You can programme only aftermarket sensors.

The programming modes are:


Name	Description
Generate ID	It allows you to programme the new sensor using a casual ID created by the software.
Enter ID Manually	It allows you to programme the new sensor by entering the ID manually.

The programming procedures are similar to each other.

As an example, the programming procedure is described below

NOTE:

To enter the ID manually, just select one of the specific editable fields and type the desired ID

using the display keyboard and at the end confirm with .

Proceed as follows:

1. Select the desired tyre.

2. Press **OK**.

The following screen is displayed.

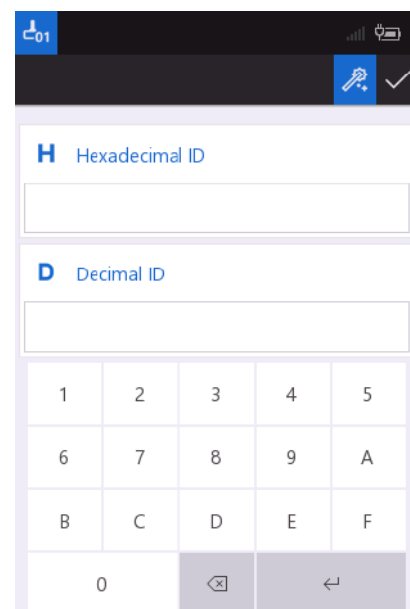
3. The icon  is selected.

4. Press **OK**.

The software automatically suggests a casual ID.

5. The icon  is selected.

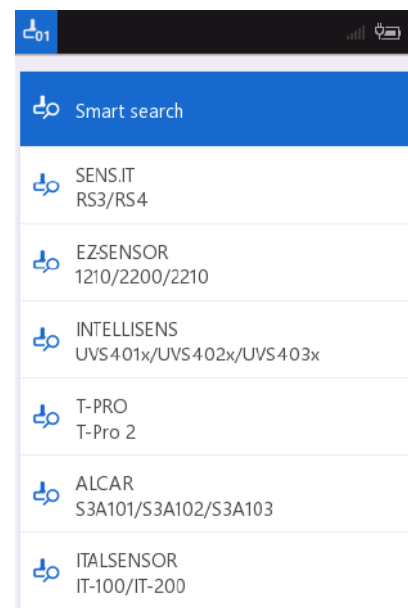
6. Press **OK**.



The list of sensors that may be installed on the selected vehicle is displayed.

7. Select the desired item.

8. Press **OK**.



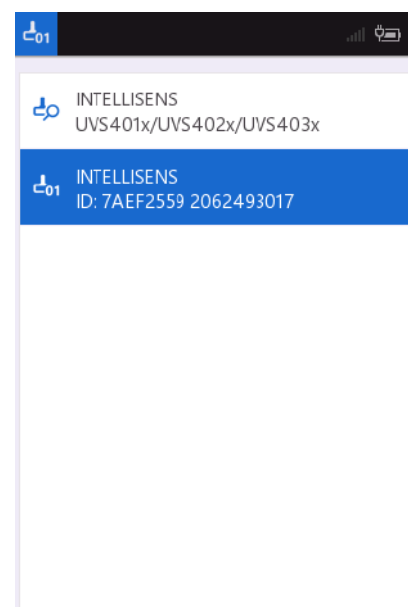
NOTE:

If you do not know the type of sensor installed, you may launch the Smart Search function that allows the search and automatic detection of the sensor.

Proceed as follows:

I. Select .

II. Press **OK**.



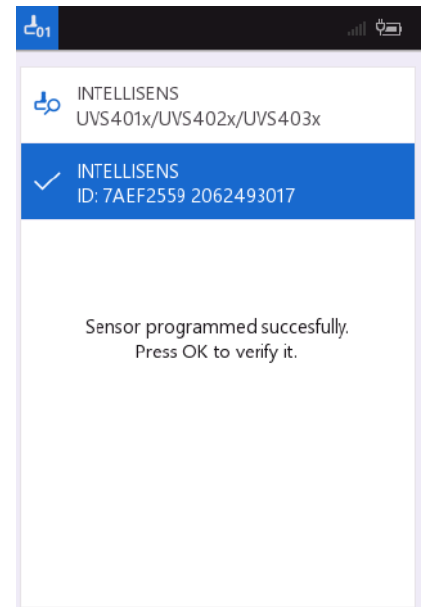
The sensor has been detected and identified.

9. The sensor's programming can be started.

10. Press **OK**.

At the end of the programming procedure, you can launch the sensor test.

11. Press **OK**.
The test result is displayed.

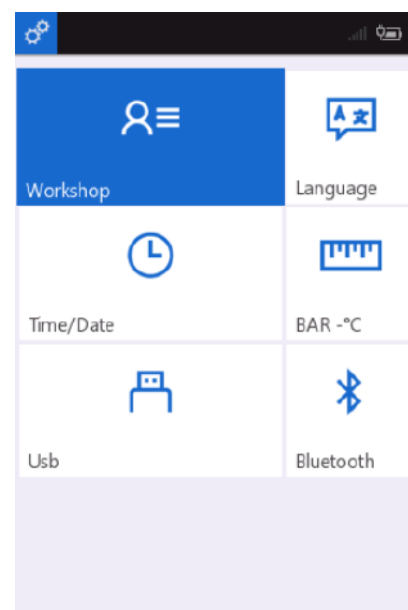








9 SETTINGS

This menu allows you to access functions such as setting the display language, the units of measurement, etc.

Proceed as follows:

1. Select the desired function.
2. Press **OK**.



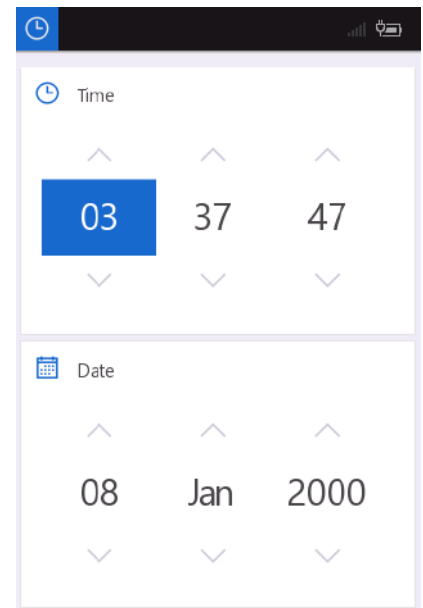
Icon	Name	Description
	Workshop	It allows you to enter the workshop's business name and address. This data are printed in the test reports.
	Language	It allows you to set the software's display language.
	Time / Date	It allows you to set the time and the date.
	Measurement system	It allows you to select the system of measurement to use: <ul style="list-style-type: none"> • <i>bar / °C</i> • <i>psi / °F</i> The writing below the icon indicates the measurement system currently in use.
	USB	It allows you to access the device's internal memory that contains all TPS2 Utility's manuals and installation files. The device must first be connected to a PC through a USB cable.
	Bluetooth	It allows you to search and configure the Bluetooth communication between the device and the diagnostic interface / the Bluetooth printer.

9.1 Time / Date

This function allows you to set the time and date.

Proceed as follows:

1. Select the desired field.
2. Press **OK**.
3. Use the directional arrows to increase or decrease the field value.
4. Press **OK**.
5. If necessary, repeat the operation for the other fields.





9.2 Bluetooth

This function allows you to search and configure the Bluetooth communication between the device and the diagnostic interface / the Bluetooth printer.

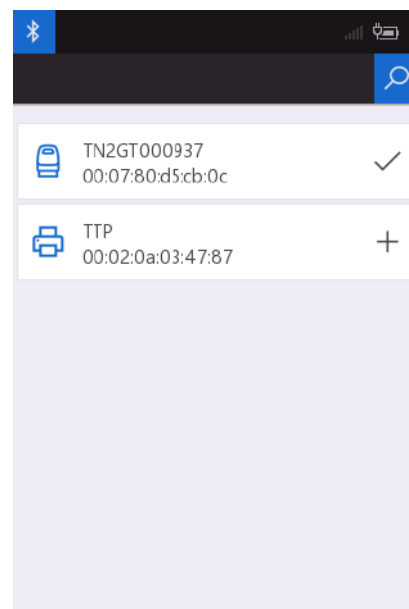
At start-up, the function displays the list of Bluetooth device that may have been previously configured.


If there are several devices of the same type (e.g. two diagnostic interfaces), the software indicates which device is currently selected by means of an icon.

Icon	Name	Meaning
	Selected	It indicated that the device is selected and can be used for the diagnostic operations / for printing.
	Not selected	It indicates that the device is not selected.

Proceed as follows:

1. Press **OK**.
Wait for the search to complete.
2. Select the desired device.
3. Press **OK**.
The device is now ready for use.



Icon	Name	Description
	Search	It allows you to launch the search for Bluetooth devices.

10 UPDATE

This function allows you to update the software.



The update through this function is reserved for assistance purposes and must be performed only when indicated and following the instructions by TEXA Technical Assistance.

The device's normal update requires the TPS2 Utility software installed on a PC with an Internet connection.

Proceed as follows:

1. *Connect the device to the PC via USB*
2. *Turn on the device.*
3. *Launch TPS2 Utility.*

TPS2 Utility downloads any updates and copies them onto the device.

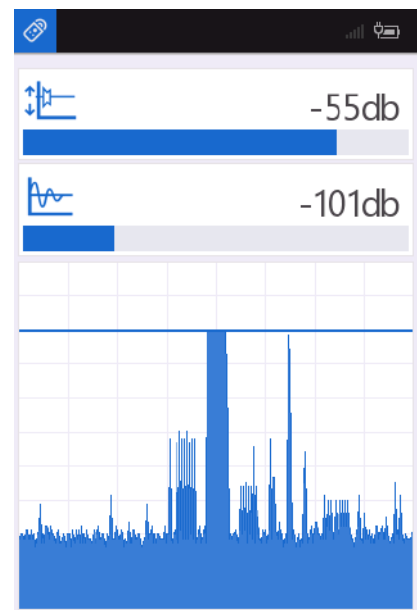
The installation is automatically launched at the end of the copy.



For further information, consult the TPS2 Utility operating manual.

11 REMOTE CONTROL

This function allows you to check the remote control signal quality for the door central unlocking. Proceed as follows:

- 1. Move the remote control close to the device.
- 2. Press one of the remote control buttons (e.g. door unlocking). The signal strength is displayed graphically.
- 3. To reset the read values, press **OK**.



Icon	Name	Description
	Peak	It indicates the peak value of the detected signal.
	Average	It indicates the average value of the detected signal.