

# Huf Group

Your Preferred Partner for Tire Pressure Monitoring Systems



## IntelliSens App

For Android & iOS devices  
Revision 2.0 17.10.2016

...the intelligent  
touch to cars.

## Overview

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## Function flow



## HC1000

The **HC1000** needs to be paired with your Android or iOS  device.

### Battery indicator:

Charger **connected**

**Green solid:**

Battery completely charged



**Red solid:**

Battery charging



Charger **disconnected**

**Green blinking:**

Tool turned on and battery charged

**Red blinking:**

Battery low



**+/- Indicator:**

**Green blinking:**

Reading or programming in progress

**Green for 10 sec:**

Successful reading or programming

**Red for 10 sec:**

Failed reading or programming

**Trigger Button:**

To activate a TPM sensor. This button must first be activated in the settings menu. *(Function not activated yet)*

**Power Button:**

Turning the device on or off.

Micro-USB connector



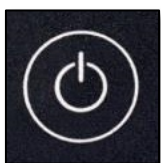
## First Steps

For installation and updates an internet connection is required.\*  
The HC1000 must be charged or connected to a power source.  
The required time of the installation process depends on your internet connection.

### 1. Download and install the IntelliSens App:



→ Via **Apple App Store** or **Google Play Store**:  
**IntelliSens App**



### 2. Turn **HC1000** on.



### 3. Open the **IntelliSens App** on your device. The app will now guide you through the process.



### 4. The app activates your **Bluetooth** and pairs with the **HC1000**.

For the first pairing your Android or iOS device **must be connected to the internet\***, otherwise the setup cannot be completed.



### 5. The app will now **automatically update** to make sure you are up to date!\* (*internet required*)

\* Internet service provider fees may apply.

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6. The device and your Android or iOS device are now paired and connected. You are ready to work with TPMS!

→ [How to Read a TPM Sensor.](#)

→ [How to Program a Universal TPM Sensor.](#)

→ [How to Relearn new IDs to the ECU.](#)



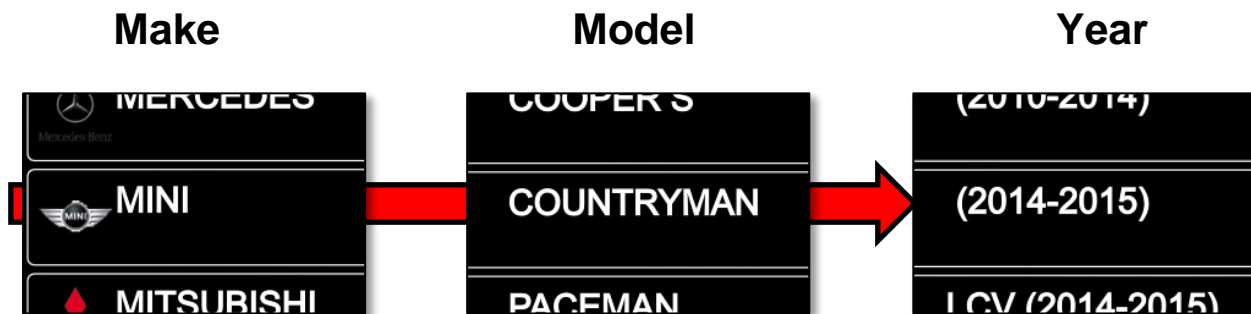
The Bluetooth range varies, it is recommended to keep the Android or iOS device within a few meters distance to ensure a stable connection.

## How to Read a TPM sensor

1. Open the main menu and choose vehicle selection.

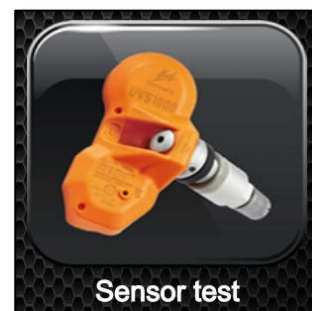


2. Select the correct vehicle by:



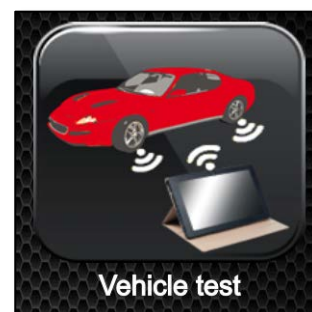
3. In the TPMS workplace choose

- a) Sensor test  
to check an individual sensor



or

- b) Vehicle test  
to check all four sensors.



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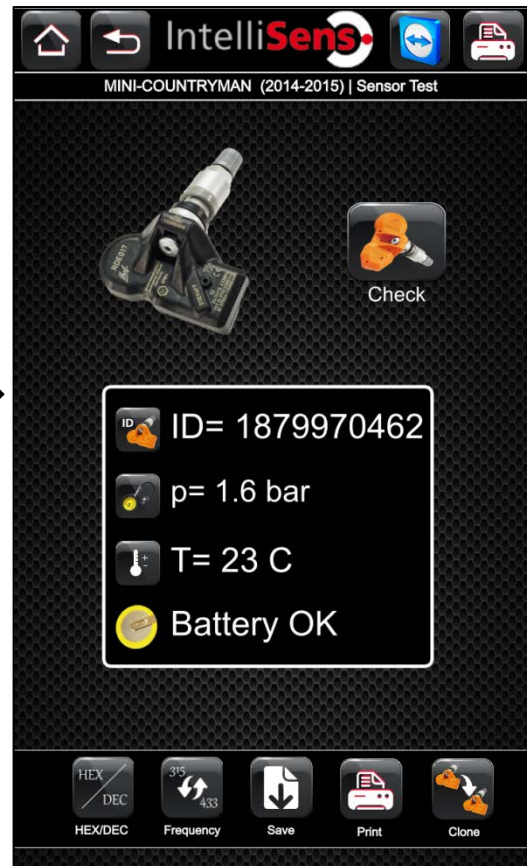
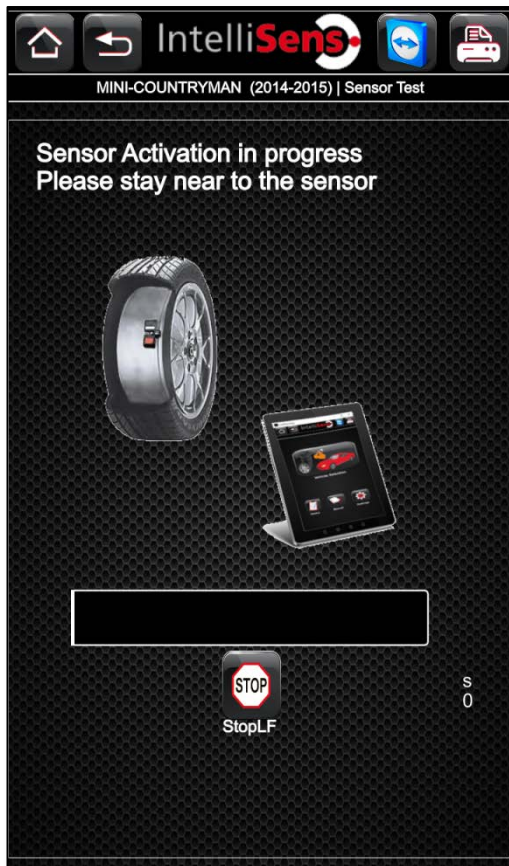
### 3. a) Sensor test

Before reading the sensor, make sure that:

1. HC1000 is held correctly.
2. HC1000 is turned on and connected to your device.
3. The correct vehicle is selected (as displayed on top of the screen).



Clicking on “**check**” will activate the Radio signal to read the sensor.



**Data can be saved, printed or used to clone a sensor.**



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### 3. b) Vehicle test

Complete sensor test of all wheels.

Before reading the sensor, make sure that:

1. HC1000 is held correctly.
2. HC1000 is turned on and connected to your device.
3. The correct vehicle is selected (as displayed on top of the screen).

Clicking on “**check**” will activate the LF-signal to read the sensor at the specific wheel position.



Reading and programming also works when the sensor is mounted in the wheel. Please make sure to hold the tool correctly to ensure a good connection.

Note: To clone a sensor the original ID must be read first. A new ID for a universal sensor can be created without reading the original.

For further information see [Cloning and Creating a Sensor.](#)

## How to Program a TPM Sensor

Follow steps 1-3 How to read a TPM sensor.

4. Please note the difference between cloning a sensor and creating a sensor.

- a) For programming a **single sensor**  
→ Universal sensor



- b) For programming a **whole set**  
→ Vehicle test



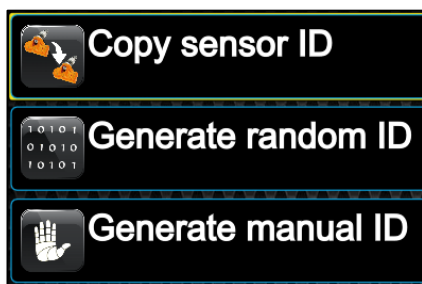
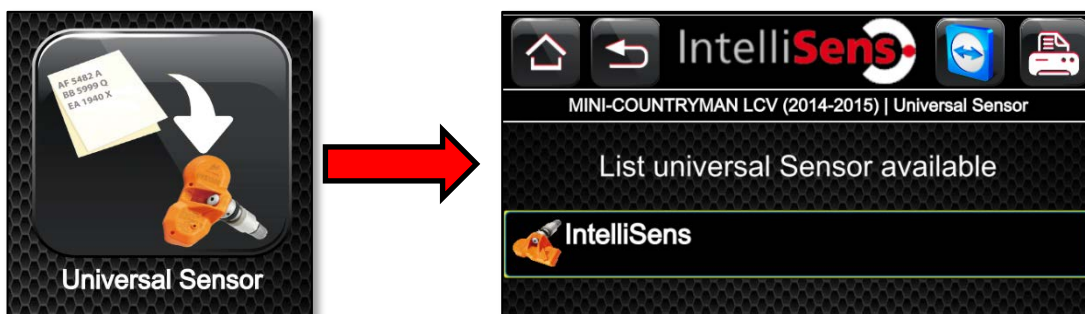
5. Cloned sensors need to be installed on the correct position.  
If a new ID was generated please go to Relearn.
6. If you want to work with other universal sensors, like the Alligator sens.it and Schrader EZ-Sensor, please perform the Multi-brand Upgrade.

## Program a Single Universal Sensor

### 4. a) Single Sensor

After selecting Universal Sensor please choose the programmable sensor you want to use.

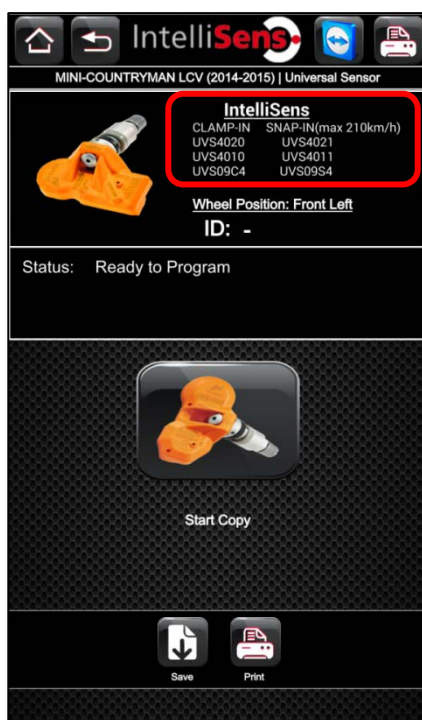
(Note: As standard, the app supports the Huf IntelliSens Universal Sensor)



to clone an existing sensor

to create a new sensor ID

to manually type in an ID



On the top of the screen all versions of compatible sensors are listed. Please make sure that the sensor you are using is listed.

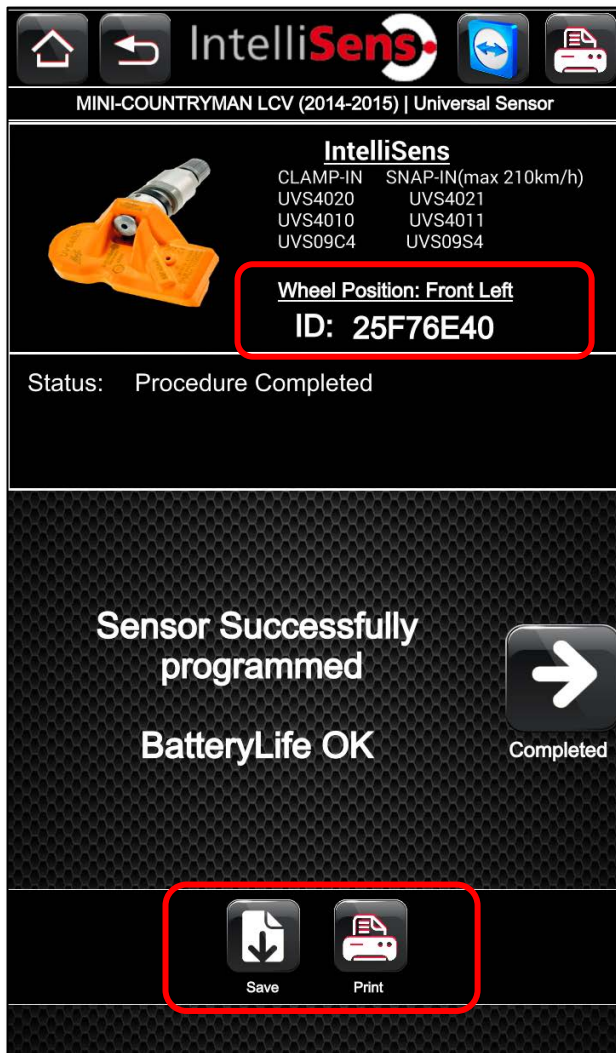
If “Copy sensor ID” was selected in the previous step, the first step is reading the OE-sensor.

The app will now guide you through the programming process.

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After the successful programming an information screen displays sensor related information.



This information can be stored on the Android or iOS device or saved as a PDF file.

The wheel position is only important if the sensor is cloned. A cloned sensor must be mounted on the same position as the original one.

If there is a new ID generated the vehicle's ECU needs to be relearned to ensure and document that the TPM system works fully functional.

The programmed universal sensor performs now as an original sensor.

Please be aware for security reasons the pressure in the tire has to be below 1,0 bar (14,5 psi) to reprogram a Huf IntelliSens Universal Sensor.

## Program a Set of Universal Sensors

### 4. b) Set of sensors

After selecting “Vehicle test” the standard vehicle check screen appears as described in

### 3. b) Vehicle test

For cloning we recommend to read all 4 original sensors first and then start programming the universal sensors. This way the risk of mixing up IDs and wheel positions is minimized.



For the standard procedure please choose “Clone” in the bottom right corner.

To choose your own workflow just click on “Clone” next to the position you wish to program.

If a sensor is successfully cloned a note appears on the wheel position.

## How to Hold the HC1000

It's important to know, that the TPM sensor is installed in the wheel directly behind the valve. To communicate it uses radio frequency, the reading and programming range is limited.

It is very important to hold the HC1000 correctly to ensure a correct communication to the sensor.

Always try to be as close to the sensor as possible and keep all other sensors far away to minimize the risk of crosstalk (reading another sensor).

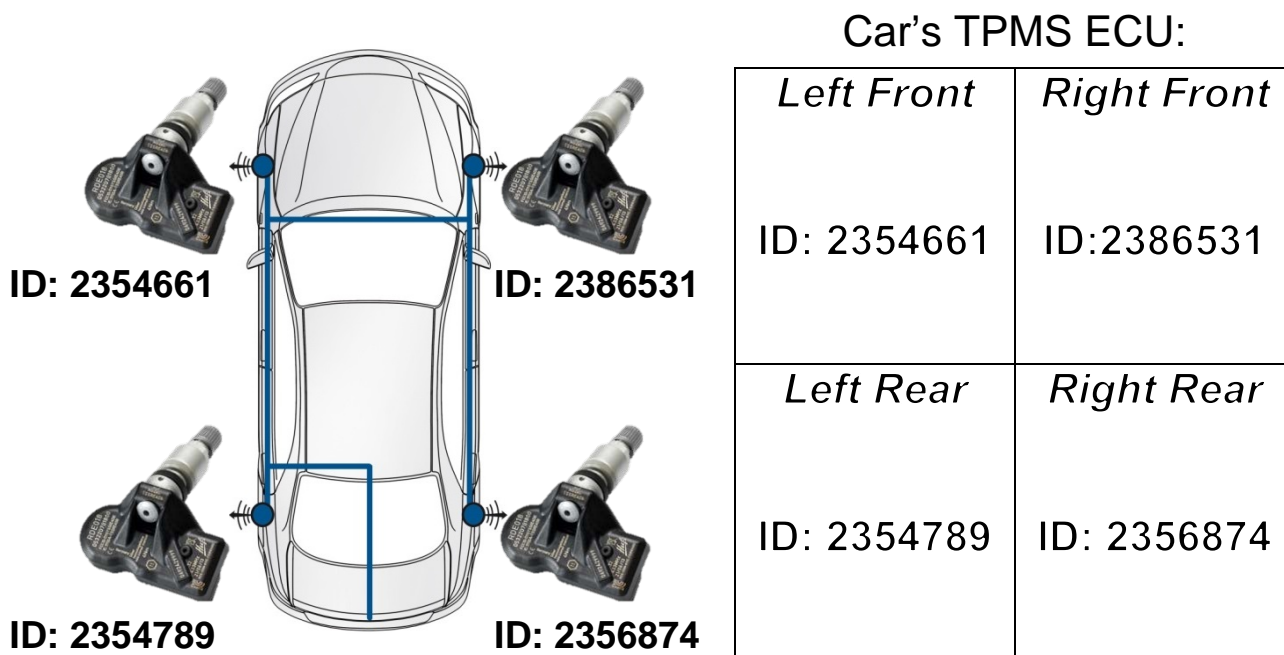
If the sensor is mounted hold the tool at the sidewall and assure that the **HC1000** points directly towards the sensor.

In some cases just pointing at the valve may be enough, but this doesn't apply for every sensor.



## Cloning and Creating a Sensor

Every sensor has its own individual ID (identification number).



This ID is known to the vehicle and saved for each wheel position. Rotating or changing wheels will lead to wrong information in the car's ECU.

New IDs or changed positions need to be programmed to the vehicle. This procedure is called **Relearn**.

### **OE and not programmable aftermarket sensors:**

They have already all information, including the ID, stored on the sensor and cannot be programmed.

→ Installing these sensors always needs a **relearn**.



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## Programmable sensors:

The Huf IntelliSens Universal Sensor can be programmed using the IntelliSens App or other TPMS tools.



→ If **cloned** no relearn may be necessary.

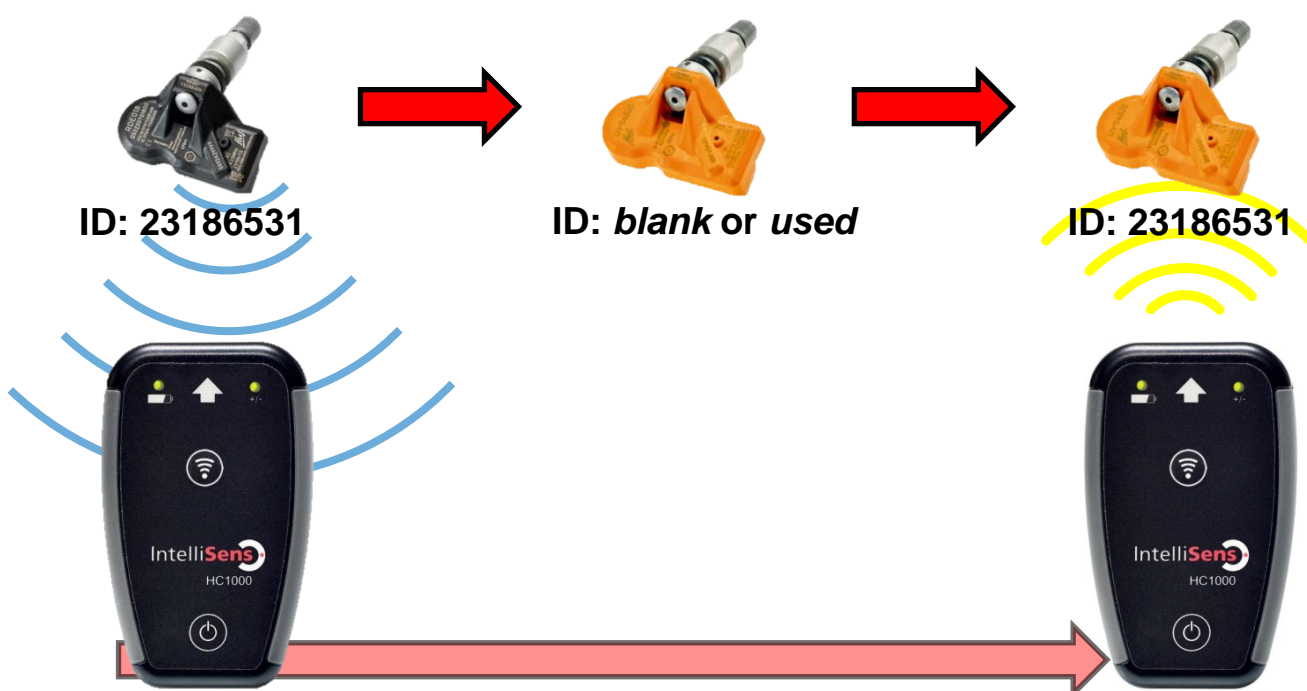
New programmable sensors have no specific vehicle ID assigned.

With the IntelliSens App the OE sensor's ID can be read and programmed on the Huf IntelliSens Universal Sensor.

Is a whole set of wheels cloned, i.e. summer and winter tires, the tires just need to be mounted on the same position and no relearning of the vehicle's ECU may be necessary.

## Cloning:

Copying the ID of the OE-Sensor on the programmable sensor to generate a "clone".



Read OE sensor and program IntelliSens Universal Sensor!



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**Creating:** Generating a new ID for the programmable sensor.

In case the OE sensor cannot be read or the ID is unknown. The IntelliSens App will generate a new specific ID or let you type in an ID manually. This is recommended when the sensor is electronically broken (empty battery) but the ID can still be read on the casing.

Cloned or created Huf IntelliSens Universal Sensor work like the OE or aftermarket sensor for the specific vehicle!

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## Main Menu

With every start of the IntelliSens App an automatic update process starts looking for an update\*. After this process the Main Menu opens with the following options:



### Vehicle selection:

- Vehicle test
- Read sensors
- Program universal sensors
- Relearning the car
- Technical data
- Part numbers

### History:

- Review saved vehicle reports

### Manual:

- Open detailed user manual

### Settings:

- Language
- Database
- Units
- Bluetooth connection

\* Internet service provider fees may apply.

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## Vehicle Selection

An **accurate selection of the vehicle** is important and necessary to ensure a correct reading.

**Select the make, the model and production period.**

After the selection of the vehicle the **TPMS Workplace** opens.

The screenshot shows the IntelliSens TPMS Workplace interface. At the top, there is a navigation bar with icons for home, back, IntelliSens logo, refresh, and print. Below this is a list of car makes: ABARTH, ALFA ROMEO, ALPINA, ASTON MARTIN, AUDI, BENTLEY, and BMW. The BMW option is selected, and the interface displays four search fields: Plate Number (with a license plate icon and a sample number 07-065432), VIN (with a VIN icon and a red car icon), Customer Name (with a person icon and a red car icon), and Sensor Part Number (with a sensor icon and a keyboard icon). A 'Search Sensor' button is located at the bottom right of the search fields.

Saved vehicle audits can be searched by:

- Plate number
- VIN number
- Customer name
- Sensor part number

For additional functions, like barcode reading, third party applications have to be installed.

To see all verified applications please see:

**Additional Apps**

## TPMS Workplace

This screen gives you all the information and functions concerning the selected vehicle and TPMS.



### **Vehicle test:**

To read and program sensors

### **Universal sensor:**

To program a single universal sensor

### **Sensor test:**

To test a single sensor

### **Vehicle history:**

Review saved reports of this vehicle

### **Tech data:**

OE and replacement parts and Relearn procedure

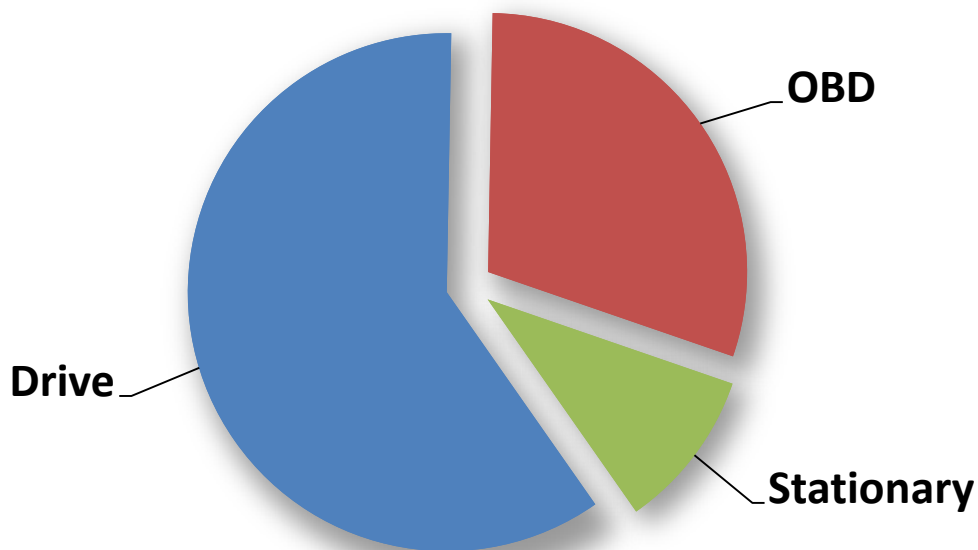
### **OBD/Relearn:**

This function is temporarily not available.

## Relearn

New sensors with new IDs have to be programmed in the vehicle's ECU. Otherwise the vehicle won't recognize the new fitted sensors.

There are 3 very common relearn types:



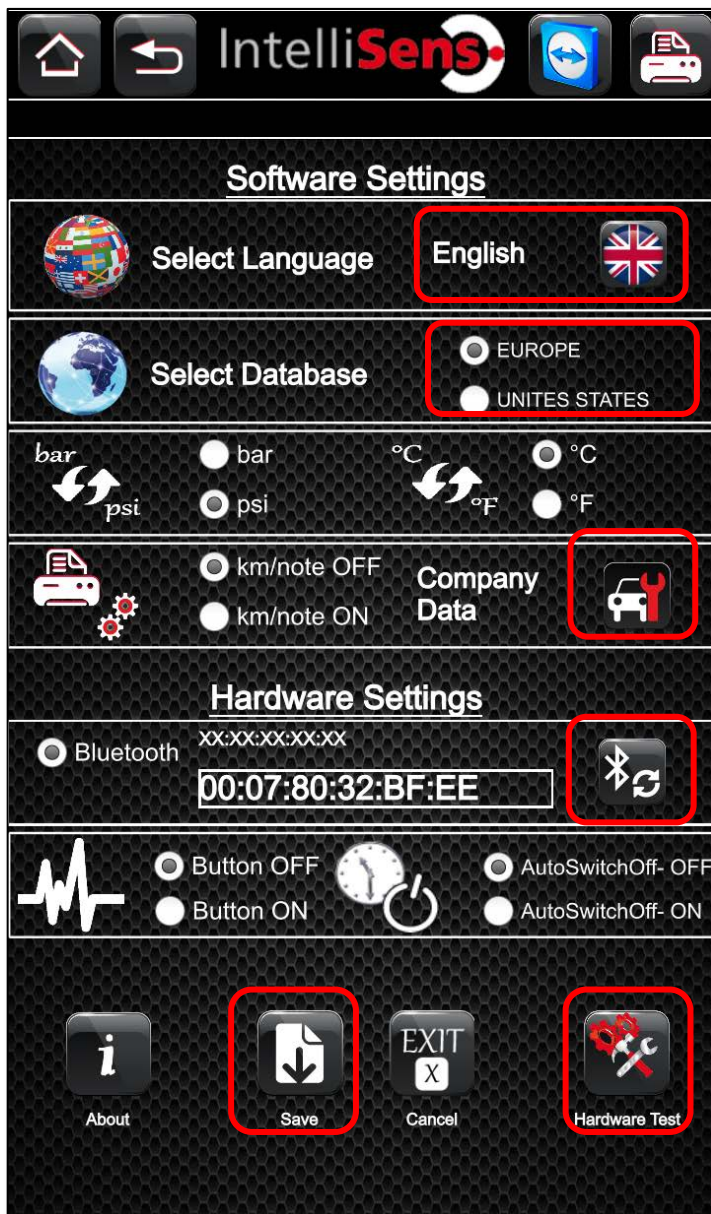
- 1. Drive:** The vehicle learns the new IDs automatically just by driving the car. In some cases the relearn procedure must be initiated in the vehicle's board computer settings.
- 2. OBD:** The new IDs and their position must be read with the IntelliSens App. This information will then be directly programmed on the ECU using the vehicle's OBD port. *(OBD module OC2000 available separately.)*
- 3. Stationary:** A specific procedure puts the vehicle in a learn mode to recognize new IDs. Now the HC1000 has to wake up the mounted sensors in the correct order. For this process and the individual vehicles a detailed step by step description is on the IntelliSens App.

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## Settings

In the Settings menu all important software and hardware settings can be found.



Please click on the flag to select your preferred language.

If an imported vehicle needs to be serviced, please change to the correct database.

The company data is printed on every report. This information can be edited.

To connect to a new HC1000 please use the Bluetooth reconnect button.

Hardware Test is only for support purposes of our hotline.

Make sure to Save your settings every time when changed!

### **Additional Apps**

The IntelliSens App can work with third party applications to increase its functionality. These apps can be downloaded for free in the App Store or Google Play Store.

#### **Barcode Scanner (Android only):**

A barcode and QR code reader to scan printed reports or part numbers on boxes

#### **Team Viewer:**

For remote screen support.

If support is needed, our Huf support team can help by sharing your screen with our support. The user himself has always the control about his device.

#### **Printer App:**

Like Epson iPrint or HP ePrint.

Those printer apps work with your network printer to print out your TPMS reports directly from your device.

### **Multi-brand Upgrade**

When the HC1000 is delivered it only supports the Huf IntelliSens Universal Sensor as a programmable sensor.

If you wish to have the full capacity the Multi-brand Upgrade can be purchased at your dealer.

No exchange of hardware is necessary. The full coverage of sensors will be on your device as soon as your dealer activates your upgrade in his system.

With the next start of the IntelliSens App the automatic update will download the full functionality.



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## IntelliSens App Interactive Guide

For Windows  
Revision 2.2 16.11.2016

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## Installation Manual

For the installation and updates of the Windows IntelliSens App an internet connection is required. Increased safety firewall, antivirus or proxy servers settings may cause problems during installation or updates. Make sure that the HC1000 is connected to your computer via USB.

### 1. Download and Installation of IntelliSens App:

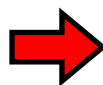
→ „Download Windows Application“

### 2. Open the Setup file (first installation) and follow the Installation instructions.

### 3. After successful installation. Start the IntelliSens App on your Desktop or through the program directory.

### 4. Disconnect the HC1000 from USB Port in order that no connection with the computer exists. Start the driver installation and follow the instructions.

→ By default the COM port is set to COM3. After driver installation and the connection via USB, the true COM port should be identified and automatically changed.

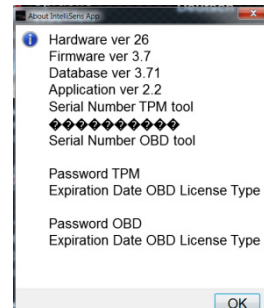


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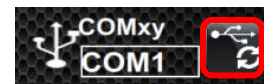
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- If this did not happen the driver must be installed afterwards manually. Open the following directory on your computer and choose the appropriate driver installation:  
C:\Program Files (x86)\STMicroelectronics\Software\Virtual comport driver
- 5. It is recommended to start the bluetooth connection later on. **Please choose Cancel.**
- 6. After successful download, the **installation** of the **remaining application** (second installation) begins. After starting the app, new updates will be checked, thereby the app has always the newest functionalities and the latest database.

→ In case of update problems (Error Code 203), the serial number of HC1000 may not be read correctly (other reasons could be proxy server, firewall or antivirus settings). Please check if the serial number is recognized by clicking on the i-Button in the settings of the app:



→ If the serial number is shown as question marks, click on the USB button and follow the instructions (the USB driver does not have to be installed again)



→ Please check if the serial number is shown in the i-button. Restart the app and the update process will begin.

The installation is completed!  
You can start working with TPMS sensors!

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## Connection via Bluetooth

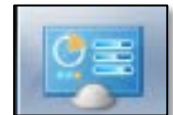
For a wireless connection via bluetooth it is necessary that your computer is equipped with bluetooth modul. The modern computers have an integrated bluetooth module. Please make sure, that the integrated bluetooth module is activated.

*The bluetooth range varies depending on the environment. For a stable connection it is recommended to keep the devices within few meters distance.*

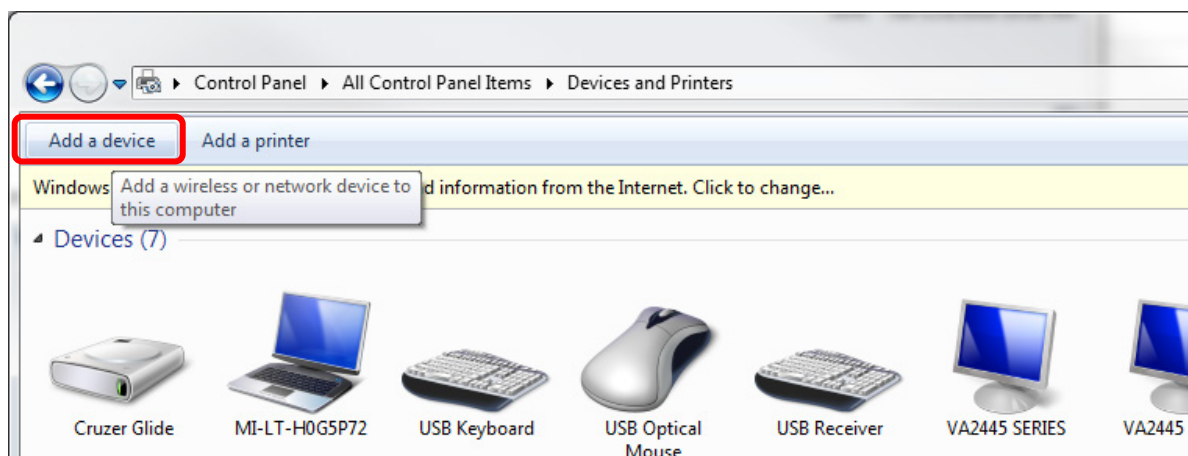
1. Turn the power of **HC1000** on.



2. Open **Control Panel\ All Control Panel Items\ Devices**



3. Choose **Add a device**

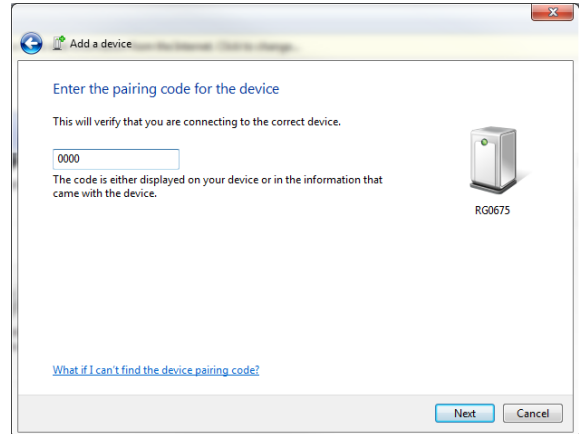


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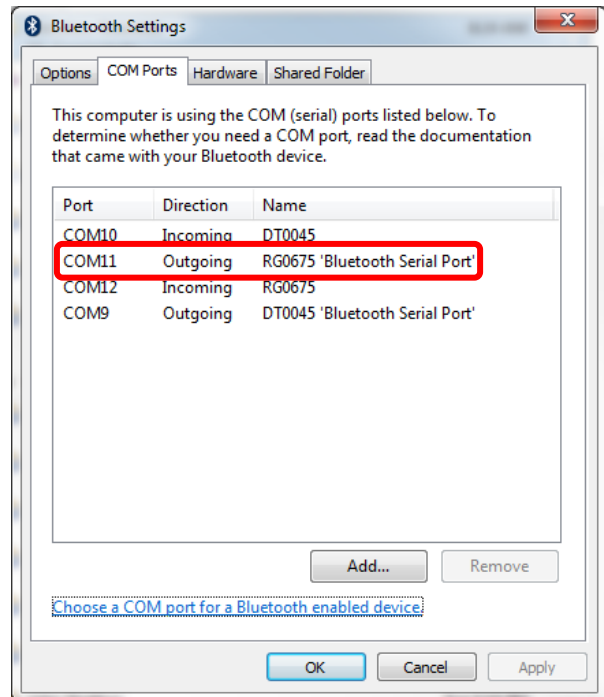
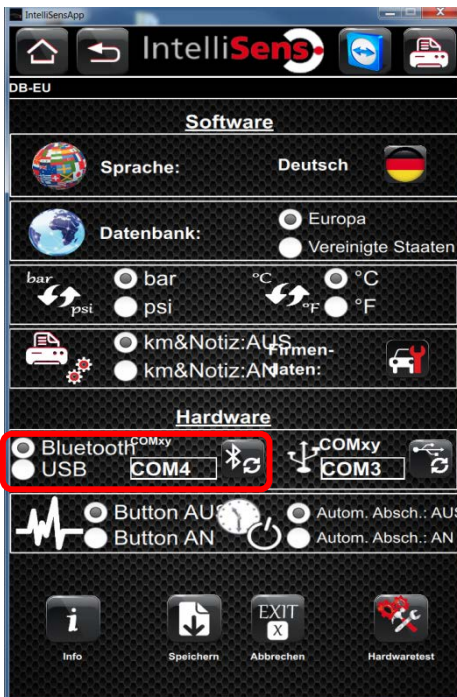
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- 4. The HC1000 will be shown as **RGXXX**. Add this device, enter the pairing code „**0000**“ and click on **Next**.



- 5. Your computer is now paired with the HC1000.

- 6. Open the **IntelliSens App** and check the **settings** of the



**Bluetooth connection.** In the **settings** of the app the **Bluetooth** or **BLE** has to be ticked off and the **COM port** must match with the **Bluetooth settings**.

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7. Check the bluetooth connection by clicking on the **Bluetooth** button.

Switch to USB in order to use the USB connection.



Now you can work with TPMS!



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## Function flow



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## HC1000

The HC1000 must be paired with **Windows PC** via bluetooth  or connected via USB . 

### Battery indicator:

Charger **connected**

**Green solid:**

Battery completely charged



**Red solid:**

Battery charging



Charger **disconnected**

**Green blinking:**

Tool turned on and battery charged

**Red blinking:**

Battery low



**+/- Indicator:**

**Green blinking:**

Reading or programming in progress

**Green for 10 sec:**

Successful reading or programming

**Red for 10 sec:**

Failed reading or programming

**Trigger Button:**

To activate a TPM sensor. This button must first be activated in the settings menu. *(Function not activated yet)*

**Power Button:**

Turning the device on or off.

Micro-USB connector



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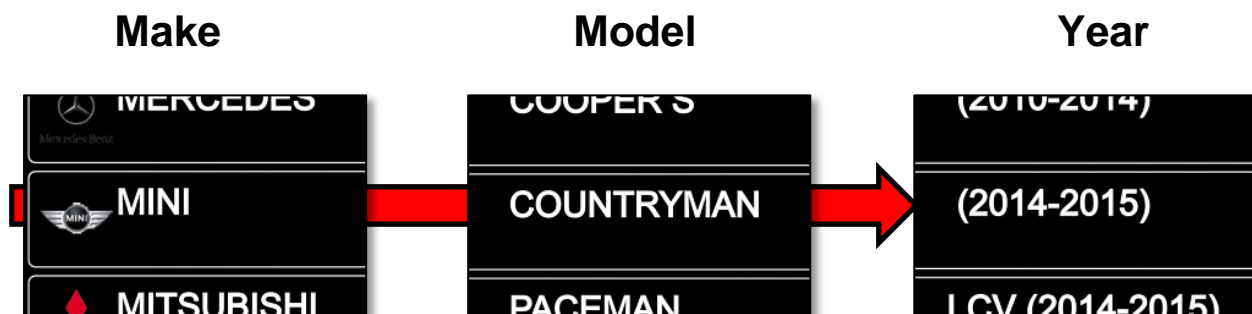


## How to Read a TPM sensor

1. Open the main menu and choose vehicle selection.

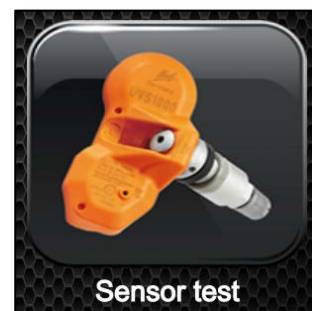


2. Select the correct vehicle by:



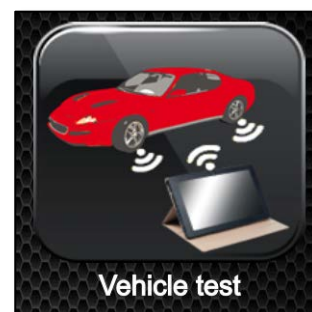
3. In the TPMS workplace choose

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or

- b) Vehicle test  
to check all four sensors.



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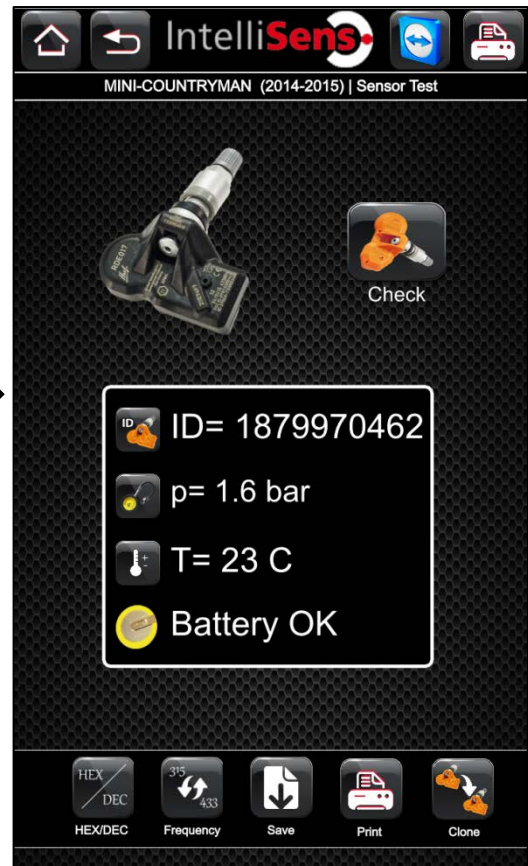
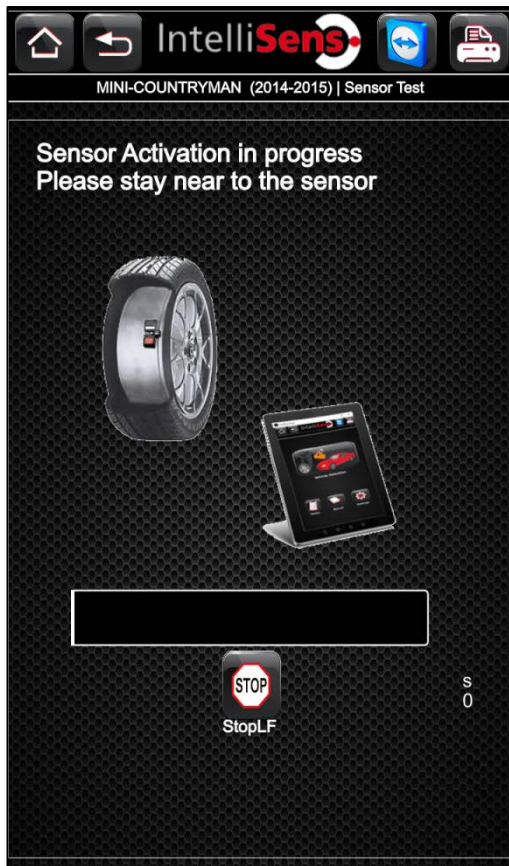
### 3. a) Sensor test

Before reading the sensor, make sure that:

1. HC1000 is held correctly.
2. HC1000 is turned on and connected to your device.
3. The correct vehicle is selected (as displayed on top of the screen).



Clicking on “**check**” will activate the Radio signal to read the sensor.



Data can be saved, printed or used to clone a sensor.

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## 3. b) Vehicle test

Complete sensor test of all wheels.

Before reading the sensor, make sure that:

1. HC1000 is held correctly.
2. HC1000 is turned on and connected to your device.
3. The correct vehicle is selected (as displayed on top of the screen).

Clicking on “**check**” will activate the LF-signal to read the sensor at the specific wheel position.



Reading and programming also works when the sensor is mounted in the wheel. Please make sure to hold the tool correctly to ensure a good connection.

Note: To clone a sensor the original ID must be read first. A new ID for a universal sensor can be created without reading the original.

For further information see [Cloning and Creating a Sensor.](#)

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## How to Program a TPM Sensor

Follow steps 1-3 How to read a TPM sensor.

4. Please note the difference between cloning a sensor and creating a sensor.

- a) For programming a **single sensor**  
→ Universal sensor



- b) For programming a **whole set**  
→ Vehicle test



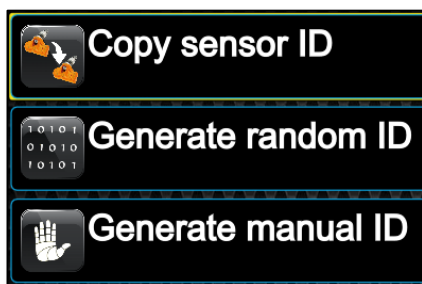
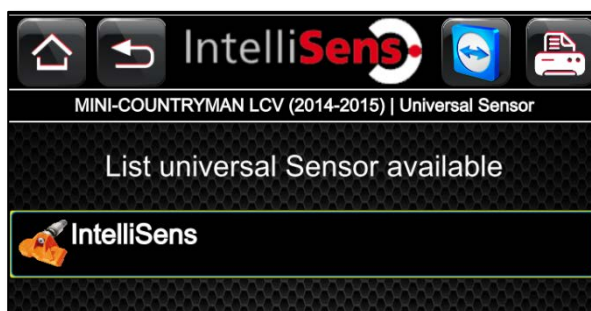
5. Cloned sensors need to be installed on the correct position.  
If a new ID was generated please go to Relearn.
6. If you want to work with other universal sensors, like the Alligator sens.it and Schrader EZ-Sensor, please perform the Multi-brand Upgrade.

## Program a Single Universal Sensor

### 4. a) Single Sensor

After selecting Universal Sensor please choose the programmable sensor you want to use.

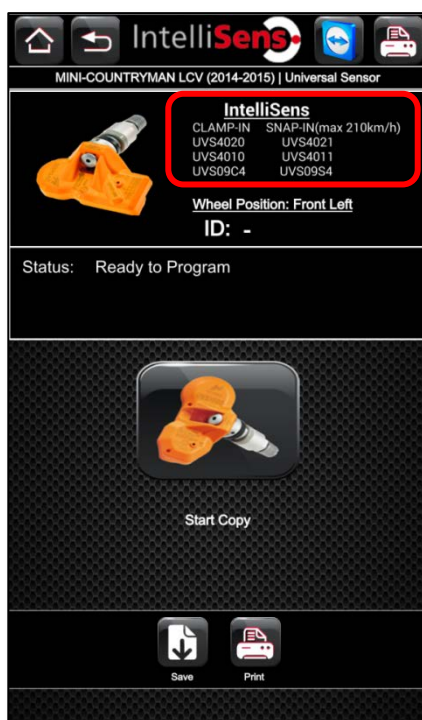
(Note: As standard, the app supports the Huf IntelliSens Universal Sensor)



to clone an existing sensor

to create a new sensor ID

to manually type in an ID



On the top of the screen all versions of compatible sensors are listed. Please make sure that the sensor you are using is listed.

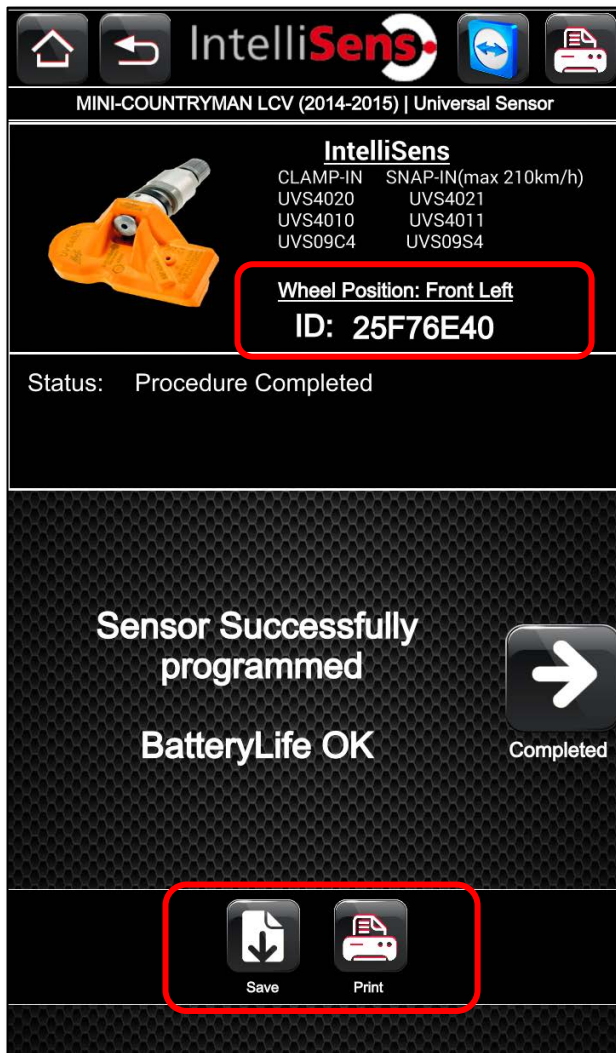
If “Copy sensor ID” was selected in the previous step, the first step is reading the OE-sensor.

The app will now guide you through the programming process.

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After the successful programming an information screen displays sensor related information.



This information can be stored on the Android or iOS device or saved as a PDF file.

The wheel position is only important if the sensor is cloned. A cloned sensor must be mounted on the same position as the original one.

If there is a new ID generated the vehicle's ECU needs to be relearned to ensure and document that the TPM system works fully functional.

The programmed universal sensor performs now as an original sensor.

Please be aware for security reasons the pressure in the tire has to be below 1,0 bar (14,5 psi) to reprogram a Huf IntelliSens Universal Sensor.

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## Program a Set of Universal Sensors

### 4. b) Set of sensors

After selecting “Vehicle test” the standard vehicle check screen appears as described in

### 3. b) Vehicle test

For cloning we recommend to read all 4 original sensors first and then start programming the universal sensors. This way the risk of mixing up IDs and wheel positions is minimized.



For the standard procedure please choose “Clone” in the bottom right corner.

To choose your own workflow just click on “Clone” next to the position you wish to program.

If a sensor is successfully cloned a note appears on the wheel position.

## How to Hold the HC1000

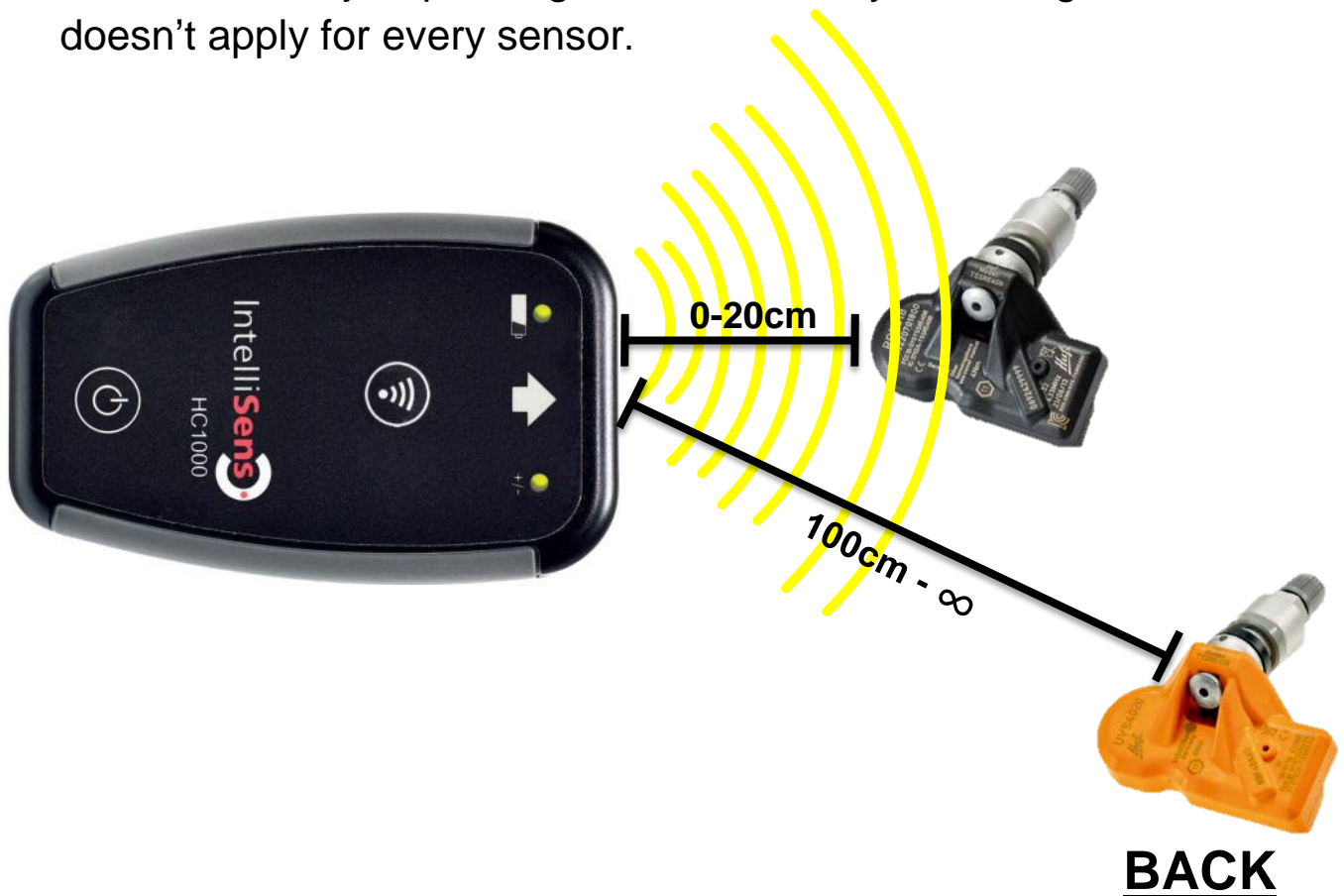
It's important to know, that the TPM sensor is installed in the wheel directly behind the valve. To communicate it uses radio frequency, the reading and programming range is limited.

It is very important to hold the HC1000 correctly to ensure a correct communication to the sensor.

Always try to be as close to the sensor as possible and keep all other sensors far away to minimize the risk of crosstalk (reading another sensor).

If the sensor is mounted hold the tool at the sidewall and assure that the **HC1000** points directly towards the sensor.

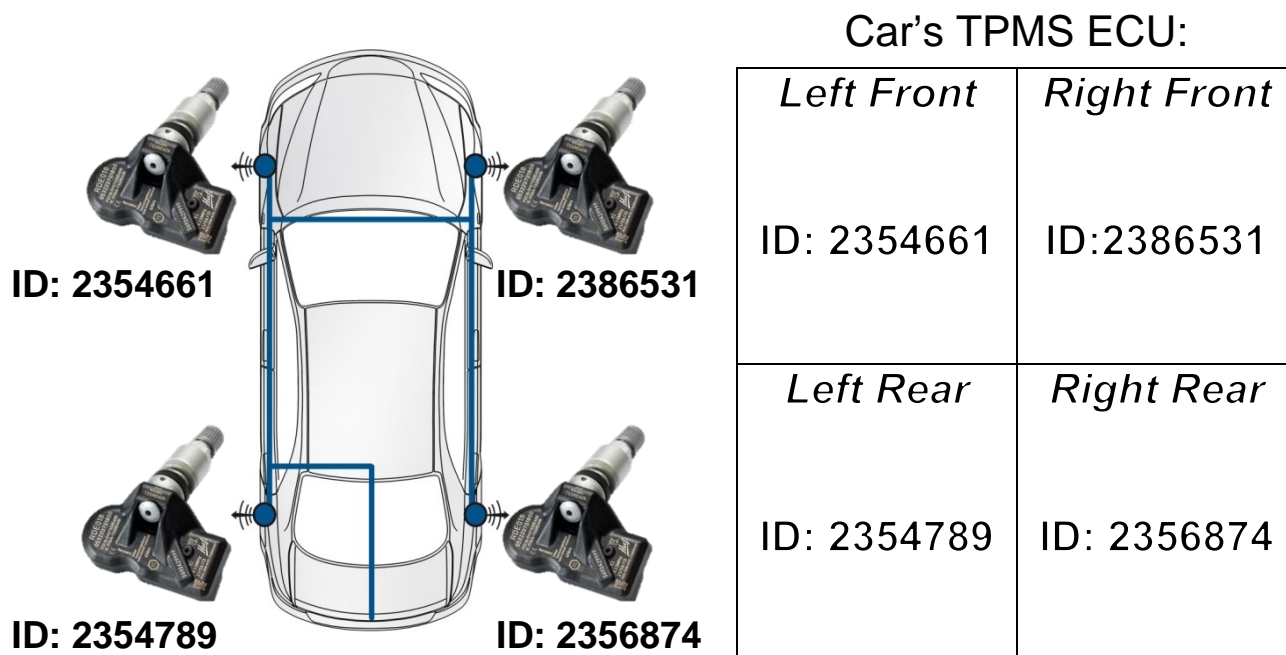
In some cases just pointing at the valve may be enough, but this doesn't apply for every sensor.





## Cloning and Creating a Sensor

Every sensor has its own individual ID (identification number).



This ID is known to the vehicle and saved for each wheel position. Rotating or changing wheels will lead to wrong information in the car's ECU.

New IDs or changed positions need to be programmed to the vehicle. This procedure is called **Relearn**.

### **OE and not programmable aftermarket sensors:**

They have already all information, including the ID, stored on the sensor and cannot be programmed.

→ Installing these sensors always needs a **relearn**.



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## Programmable sensors:

The Huf IntelliSens Universal Sensor can be programmed using the IntelliSens App or other TPMS tools.



→ If **cloned** no relearn may be necessary.

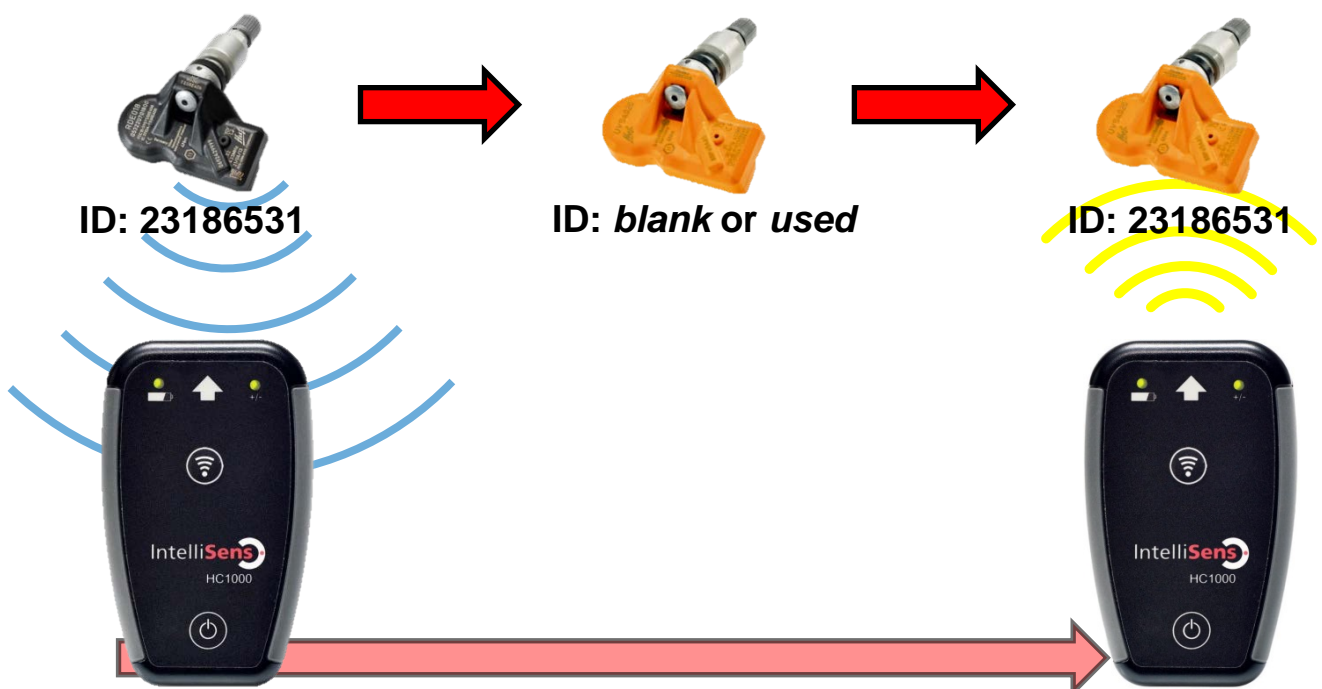
New programmable sensors have no specific vehicle ID assigned.

With the IntelliSens App the OE sensor's ID can be read and programmed on the Huf IntelliSens Universal Sensor.

Is a whole set of wheels cloned, i.e. summer and winter tires, the tires just need to be mounted on the same position and no relearning of the vehicle's ECU may be necessary.

## Cloning:

Copying the ID of the OE-Sensor on the programmable sensor to generate a "clone".



Read OE sensor and program IntelliSens Universal Sensor!

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**Creating:** Generating a new ID for the programmable sensor.

In case the OE sensor cannot be read or the ID is unknown. The IntelliSens App will generate a new specific ID or let you type in an ID manually. This is recommended when the sensor is electronically broken (empty battery) but the ID can still be read on the casing.

Cloned or created Huf IntelliSens Universal Sensor work like the OE or aftermarket sensor for the specific vehicle!

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## Main Menu

With every start of the IntelliSens App an automatic update process starts looking for an update\*. After this process the Main Menu opens with the following options:



### Vehicle selection:

- Vehicle test
- Read sensors
- Program universal sensors
- Relearning the car
- Technical data
- Part numbers

### History:

- Review saved vehicle reports

### Manual:

- Open detailed user manual

### Settings:

- Language
- Database
- Units
- Bluetooth connection

\* Internet service provider fees may apply.

## Vehicle Selection

An **accurate selection of the vehicle** is important and necessary to ensure a correct reading.

**Select the make, the model and production period.**

After the selection of the vehicle the **TPMS Workplace** opens.

The screenshot shows the IntelliSens TPMS Workplace interface. At the top, there is a navigation bar with icons for home, back, IntelliSens logo, refresh, and print. Below this is a list of car makes: ABARTH, ALFA ROMEO, ALPINA, ASTON MARTIN, AUDI, BENTLEY, and BMW. The BMW option is selected, and the interface displays four search fields: Plate Number (with a license plate icon and a barcode icon), VIN (with a VIN icon and a barcode icon), Customer Name (with a person icon and a car icon), and Sensor Part Number (with a sensor icon and a barcode icon). A 'Search Sensor' button is located at the bottom right of the search fields.

Saved vehicle audits can be searched by:

- Plate number
- VIN number
- Customer name
- Sensor part number

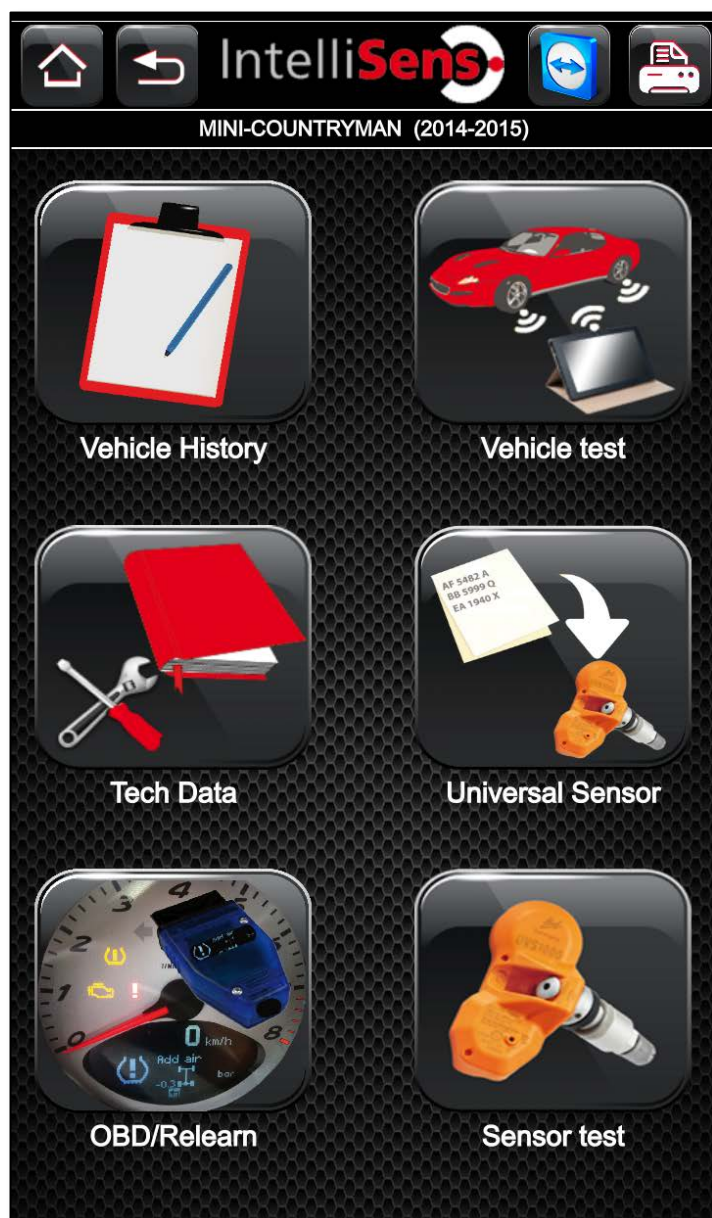
For additional functions, like barcode reading, third party applications have to be installed.

To see all verified applications please see:

**Additional Apps**

## TPMS Workplace

This screen gives you all the information and functions concerning the selected vehicle and TPMS.



### **Vehicle test:**

To read and program sensors

### **Universal sensor:**

To program a single universal sensor

### **Sensor test:**

To test a single sensor

### **Vehicle history:**

Review saved reports of this vehicle

### **Tech data:**

OE and replacement parts and Relearn procedure

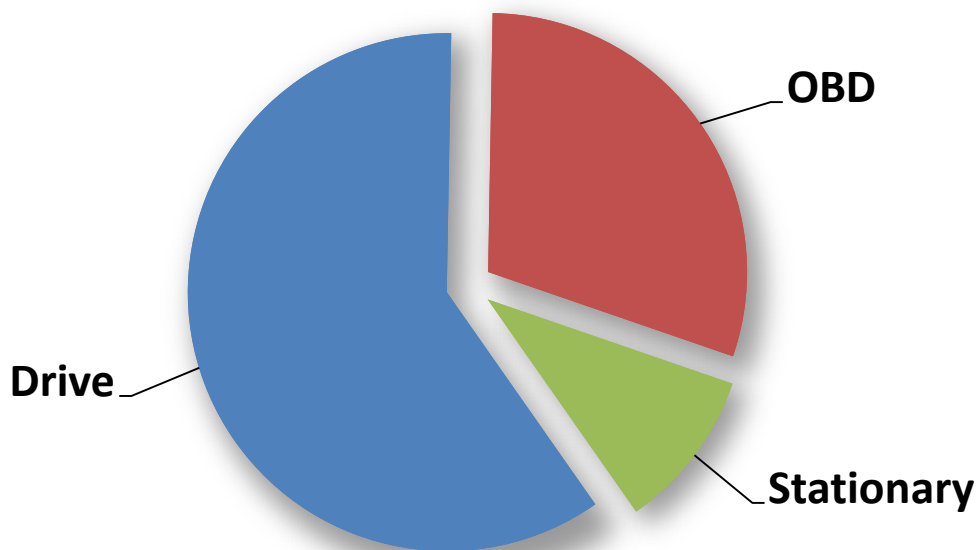
### **OBD/Relearn:**

This function is temporarily not available.

## Relearn

New sensors with new IDs have to be programmed in the vehicle's ECU. Otherwise the vehicle won't recognize the new fitted sensors.

There are 3 very common relearn types:



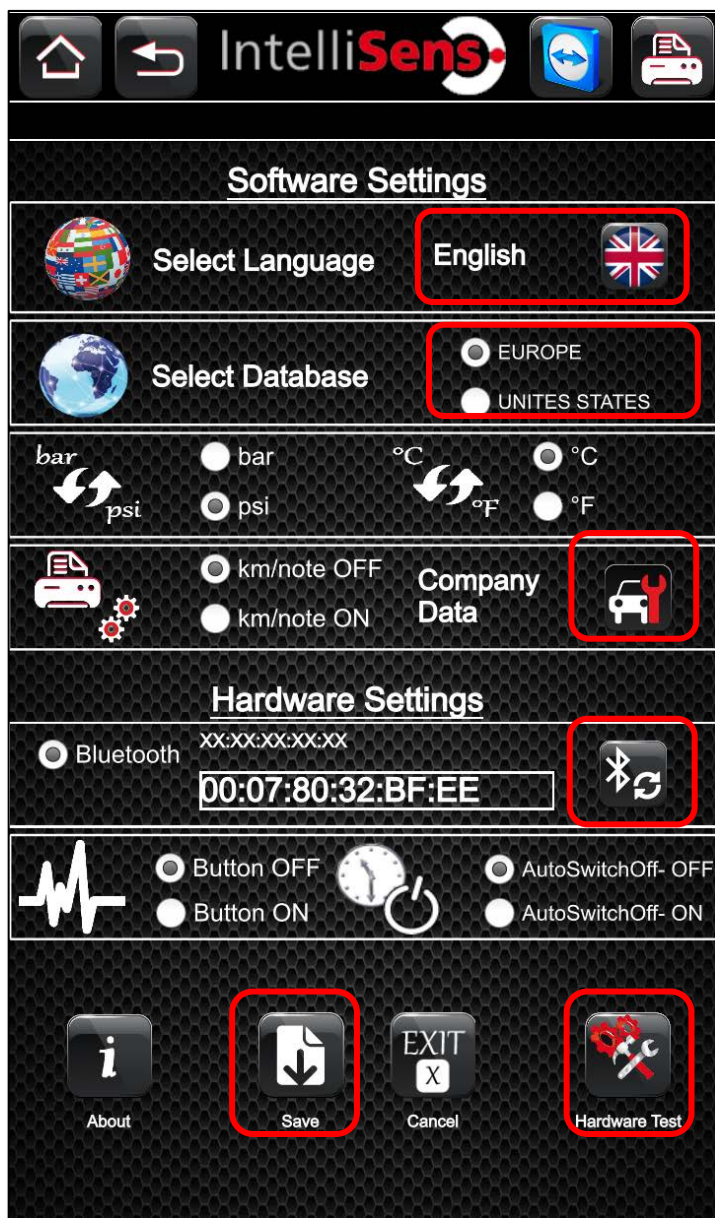
- 1. Drive:** The vehicle learns the new IDs automatically just by driving the car. In some cases the relearn procedure must be initiated in the vehicle's board computer settings.
- 2. OBD:** The new IDs and their position must be read with the IntelliSens App. This information will then be directly programmed on the ECU using the vehicle's OBD port. *(OBD module OC2000 available separately.)*
- 3. Stationary:** A specific procedure puts the vehicle in a learn mode to recognize new IDs. Now the HC1000 has to wake up the mounted sensors in the correct order. For this process and the individual vehicles a detailed step by step description is on the IntelliSens App.

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## Settings

In the Settings menu all important software and hardware settings can be found.



Please click on the flag to select your preferred language.

If an imported vehicle needs to be serviced, please change to the correct database.

The company data is printed on every report. This information can be edited.

To connect to a new HC1000 please use the Bluetooth reconnect button.

Hardware Test is only for support purposes of our hotline.

**Make sure to Save your settings every time when changed!**

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## **Additional Apps**

The IntelliSens App can work with third party applications to increase its functionality. These apps can be downloaded for free in the App Store or Google Play Store.

### **Team Viewer:**

For remote screen support.

If support is needed, our Huf support team can help by sharing your screen with our support. The user himself has always the control about his device.

### **Printer App:**

Like Epson iPrint or HP ePrint.

Those printer apps work with your network printer to print out your TPMS reports directly from your device.

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## **Multi-brand Upgrade**

When the HC1000 is delivered it only supports the Huf IntelliSens Universal Sensor as a programmable sensor.

If you wish to have the full capacity the Multi-brand Upgrade can be purchased at your dealer.

No exchange of hardware is necessary. The full coverage of sensors will be on your device as soon as your dealer activates your upgrade in his system.

With the next start of the IntelliSens App the automatic update will download the full functionality.