

**Overview AirGuard Concept:**

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Article number	Article description
95990001	Programming/diagnostic device
95990004	Starter set with 4 sensors
95990005	Starter set with OBD II module
95990001010	Large workshop case, empty
95990001014	Starter set with 20 sensors
95990003	OBD II additional module
90950001	SensoFix installation kit
90950001012	Valve insertion tool for re-ordering 0.25 Nm
70699434	Sensor with rubber valve 433 MHz
70699443	Sensor with metal valve 433 MHz
70699433012	Valve repair kit, for 70699433/-443/-433013 (separately as replacement)
70699433013	Metal valve, silver (separately as replacement)
70699433014	Metal valve, black (separately as replacement)
70699434013	Rubber valves (separately as replacement)

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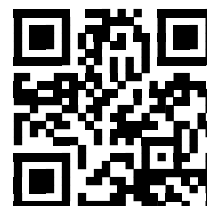


### IMPORTANT

- Read carefully before use
- Keep for later reference



Technical data:



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## 1.0 General

### 1.1. Area of application

The AirGuard is a TPMS diagnostic device. It allows work to be carried out directly on the vehicle whilst offline. The vehicle database with a coverage of 93% is stored in the device itself. Updates are available free of charge from our website. The AirGuard is able to read out all sensor types found on the market. Then, it is able to automatically or manually duplicate the read data to the Herth+Buss wheel sensors. Programming a new sensor ID and wireless reprogramming of the sensor ID of activated Herth+Buss sensors while still installed is also possible.

- Readout of own/third-party sensors in accordance with own vehicle database
- Programming of Herth+Buss wheel sensors in accordance with own vehicle database
- free updates
- Vehicle coverage of 93%
- vehicle data stored in the device itself

#### NOTE

- Please ensure that the latest software update is installed on your device. See page 25 for a detailed guide.

### 1.2. Performance data

#### The following functions are available:

- calling up of sensor data (temperature, pressure, battery)
- reading out of specific sensor ID
- various programming functions for the Herth+Buss wheel sensor
- OBD II functions in conjunction with the additional module 95990003

#### Please note:

**Wheel sensors must be held at a distance of 5-15 cm, parallel to the left or right antenna.**

**Radio frequency:**

433 Mhz



### 1.3 Error codes

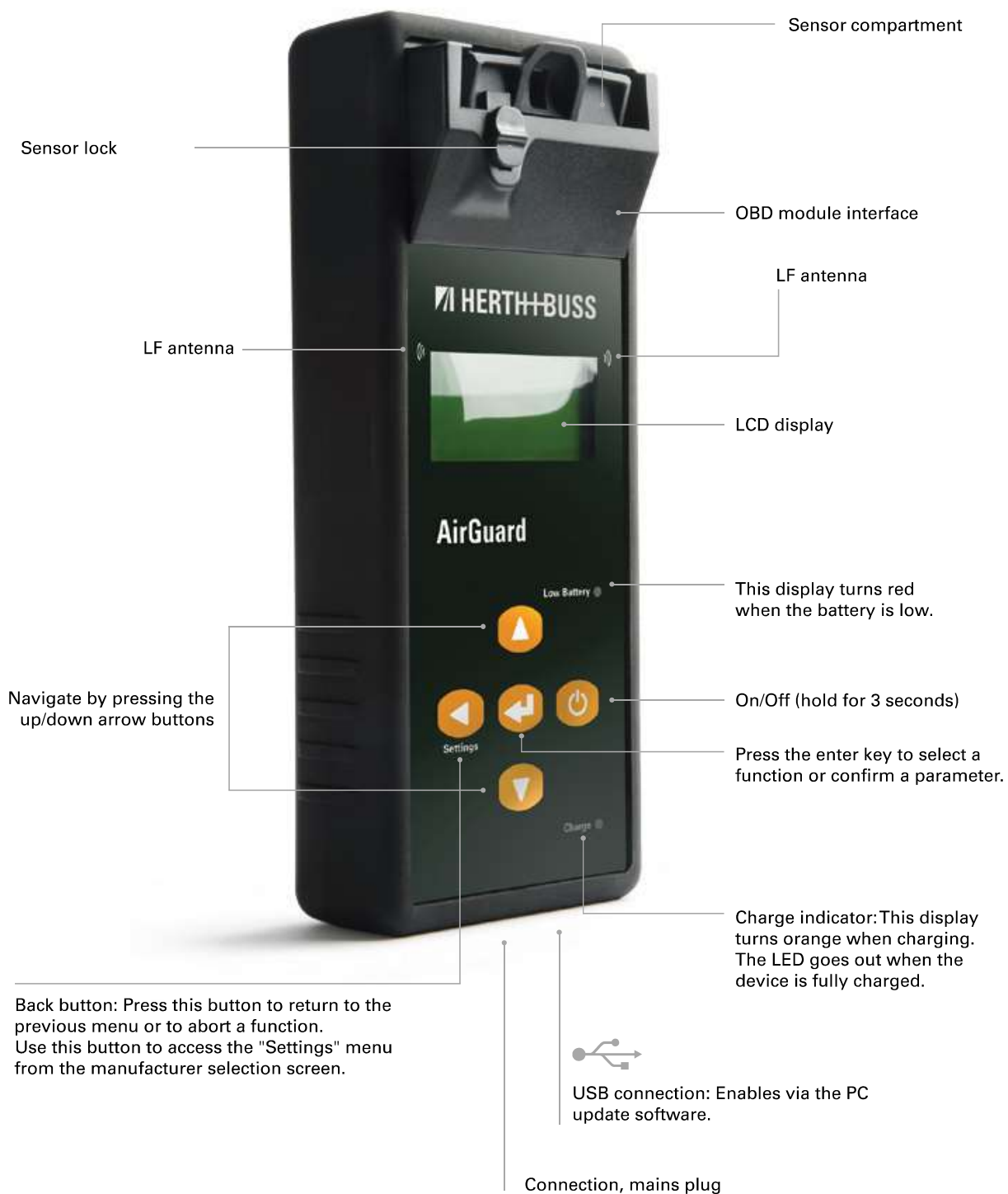
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- **E1# OBD II module communication error**  
Ensure proper fitting of all connecting cables between the OBD socket and the OBD II module, as well as between the OBD II module and the tool. Consult the coverage list to find out whether your vehicle is supported for the OBD II module functionality.
- **E2# OBD II module communication error on reading ID**  
Ensure the correct sequence of individual steps during the teaching process. Read in all sensors with the tool before connecting via the OBD II module.
- **E3# OBD II module communication error on writing ID**
- **E4# OBD II module writing of ID failed**
- **E5# OBD II module write error, missing data**  
Read in all sensors with the tool before connecting via the OBD II module.
- **E6# OBD II module initialisation (teaching process) failed**
- **E7# ID format different on manual modification**  
Modification of the tyre position is only possible within the same vehicle.
- **E8# ID format different on copying sensor ID**  
Copying of the sensor ID is only possible within the same vehicle. Please make sure you have selected the correct vehicle in the tool.

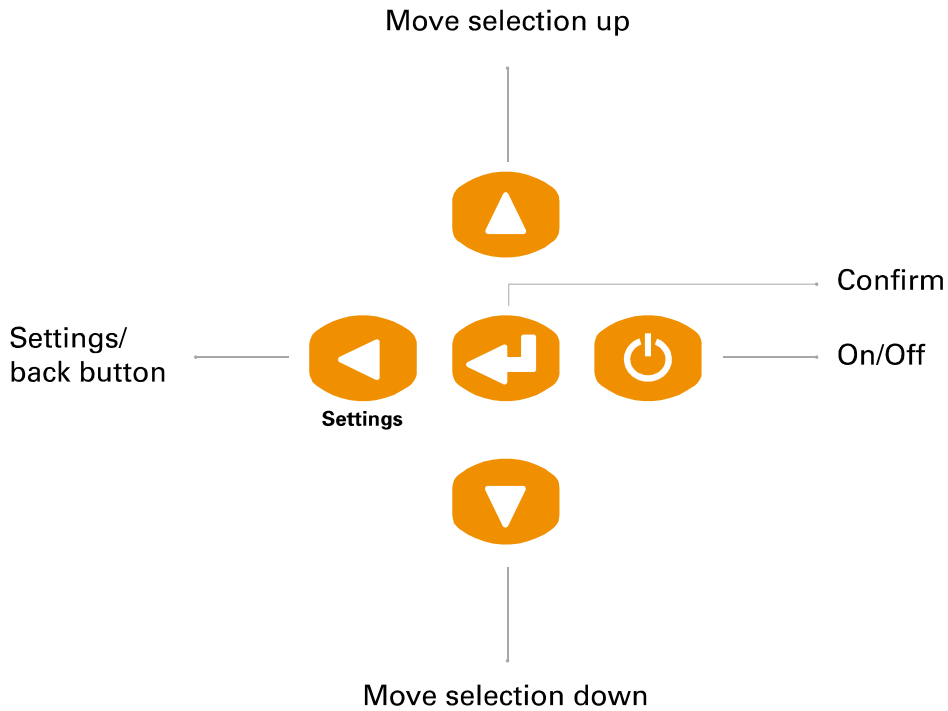
## 2.0 Operation

### 2.1 The control panel

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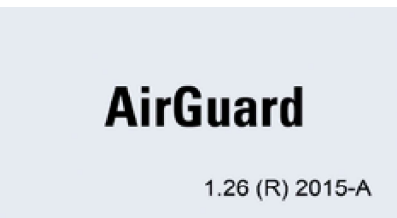
## 2.2 Starting the AirGuard

Press and hold the On/Off button for three seconds to turn the AirGuard on or off.

The device will display the Herth+Buss logo whilst turning on.



The version number of the AirGuard is then displayed in the bottom right corner.  
Example: 1.33 ® 2015-05



You are now at the manufacturer selection screen. This is the main menu.



### 3.0 Checking sensor type

Customers can check whether a tyre is fitted with a Herth+Buss sensor without having to remove the tyre.

A display also informs customers of whether the sensor is of 70699433 (WIRE) or 70699434/-443 (WIRELESS) type.

#### Differences between 70699433/-434 and -443/-444:

- 70699433 has to be activated in the compartment.
- 70699434/-443 can be activated in the compartment, but wireless activation is basically also possible.
- Wireless reprogramming of the old sensor 70699433 to a different
- ID can only be performed following activation.
- This also only applies within the same vehicle model (Opel Astra > Opel Astra)
- Wireless reprogramming of the new sensor 70699434/-443 can be performed following activation.
- This also applies between different vehicle models (Opel Astra > VW Golf)

#### As always the following must be heeded when checking:

The antennae are located on the left and right of the AirGuard Tool and not on the front. For this reason the tool is to be held longitudinally alongside the tyres at a distance of no more than 30 cm.

Select the corresponding vehicle beforehand in the tool.

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#### NOTE

- The function "Checking sensor type" does not depend on the sensor programming (vehicle model).



Example:

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 NOTE

- 70699433 (WIRE) cannot be detected until the sensor has been activated.
- 70699434/-443 (WIRELESS) can be detected even before the sensor has been activated.

### 3.1 Reading out a sensor – Sensor diagnosis

Two different readout modes can be selected.

- 1. Readout of a single sensor
- 2. Readout of up to 4/5 sensors per vehicle.

This involves changing the option Wheel: 1/4 in the Settings menu

Use the arrow buttons to browse up and down between the manufacturers.



Hold down one of the arrow buttons to automatically browse through the alphabet until you let go again.

#### Manufacturer selection:

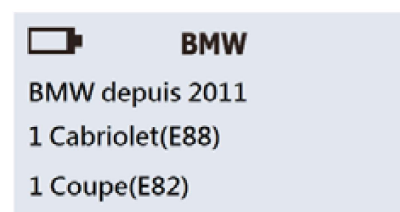
Use the arrow buttons to browse between the automotive manufacturers in alphabetical order. Select the desired manufacturer using the enter key.



#### Model selection:

Use the arrow buttons to browse between the models and select the desired model using the enter key.

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#### Construction year selection:

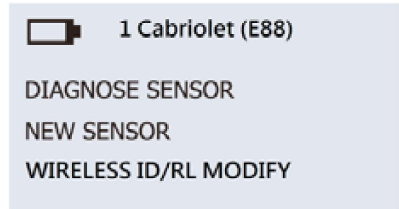
Use the arrow buttons to select the construction year and confirm by pressing the enter key.



**Function selection:**

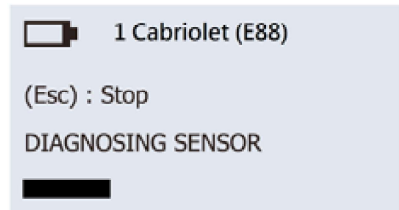
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Use the arrow buttons to select **DIAGNOSE SENSOR** and press the enter key for the diagnosis.

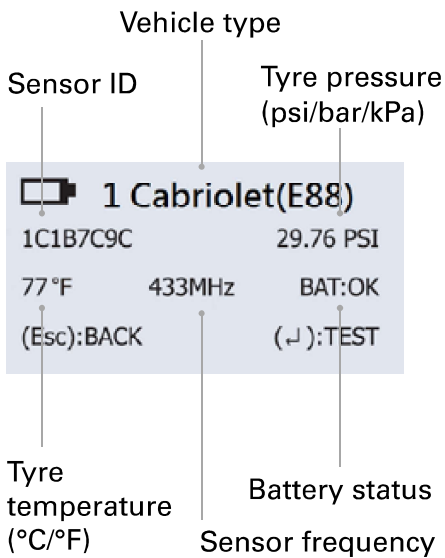


**Readout of sensor in setting Wheel: 1**

The AirGuard will now read out the sensor. The sensor reaction time may vary according to sensor type and brand. A successful read-out is confirmed with a beep.



The following image is an example of the data display of a sensor that has been read.



**TIP**

Renewed pressing of the Enter key starts the activation process for "sleeping" sensors. Example: After lengthy periods of inactivity the sensors switch to rest mode to save the battery.

**Please note:**  
**The AirGuard does not interpret any sensor values. It gives the sensor data according to the OE protocol of the respective vehicle. Not all sensors transfer the displayed information.**

**Readout of several sensors in setting Wheel: 4**



The display shows a vehicle pictogram. The up/down keys on the device can then be used to select the tyre you wish to read out. This also includes the spare tyre. A flashing display means that there is no stored data for the tyre. A steady display means that data have already been read out and stored for the tyre. It is thus always possible to see which tyres have been dealt with so far.

## 4.0 New sensor

### 4.1 Duplicating an OE sensor

**Please note:**

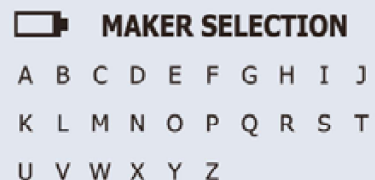
The duplication and programming function only works with the Herth+Buss wheel sensor. Other sensors cannot be written.

**Manufacturer selection:**

Use the arrow buttons to navigate in the alphabetical display. Select the desired manufacturer using the enter key.



Use the arrow buttons to browse between the automotive manufacturers and select the desired manufacturer using the enter key.



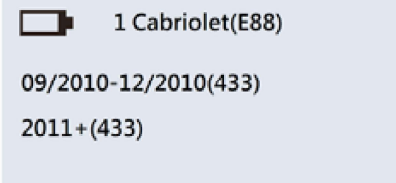
**Model selection:**

Use the arrow buttons to browse between the models and select the desired model using the enter key.



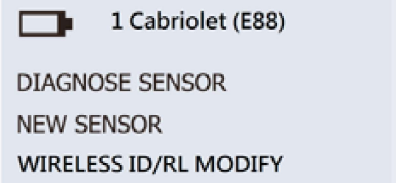
**Construction year selection:**

Use the arrow buttons to select the construction year and confirm by pressing the enter key.

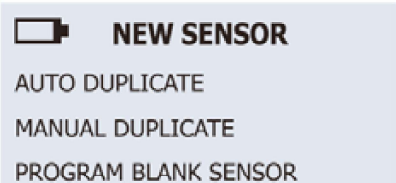


**Function selection:**

Use the arrow buttons to select **NEW SENSOR** and press the enter key to continue.



You can now choose from three functions.



**4.2 Automatically duplicating an OE sensor**

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This function was developed to allow you to avoid the teaching process for new sensor IDs via OBD II.

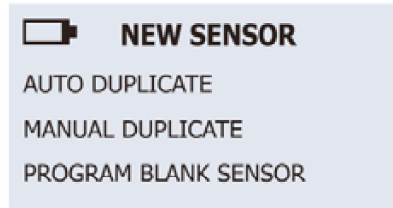
After selecting the function "AUTO DUPLICATE", it is possible to implement "WIRE PROGRAMMING" by locking the sensor in position in the sensor compartment or "WIRELESS PROGRAMMING" by holding the sensor in parallel with the device. This also works with not yet activated Herth+Buss wheel sensors already fitted in the tyre.

**Please note:**  
**The duplication and programming function only works with the Herth+Buss wheel sensor.**

Perform the steps described in 4.1.

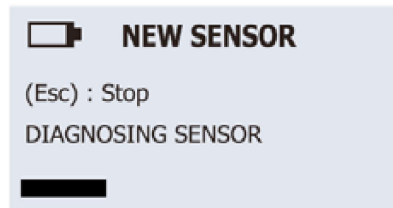
**Function selection:**

Use the arrow buttons to select **AUTO DUPLICATE** and press the enter key to select.



**ID search process:**

The AirGuard will now search for the sensor ID of the OE sensor. The sensor reaction time may vary according to manufacturer and sensor type. A successful read-out is confirmed with a beep.



**Duplicating the sensor:**

The AirGuard will show the ID of the OE sensor. Then select WIRE PROGRAM, place a Herth+Buss wheel sensor in the sensor compartment and lock it in position or select WIRELESS PROGRAM and hold the sensor in parallel with the device. Place a Herth+Buss wheel sensor in the sensor compartment and lock into place. Press the enter key to program the Herth+Buss wheel sensor.



**NEW SENSOR**  
1C1B7C9C  
(Esc) : BACK (↵) : PROGRAM

**Please note:**

**As soon as you have called up the sensor ID, press the enter button to program the new sensor directly. Pressing the BACK button deletes the sensor ID and the diagnosis must be repeated.**

**Duplication complete:**

The AirGuard will now duplicate the sensor for you by deleting the flash memory, programming the sensor and checking. You will hear two short beeps after the sensor has been successfully duplicated.

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**NEW SENSOR**  
PROGRAM SUCCESSFUL  
Sensor ID 1C1B7C9C  
(Esc) : BACK (↵) : PROGRAM

**TIP**

You can overwrite the Herth+Buss wheel sensor several times.

4.3 Manually duplicating an OE sensor

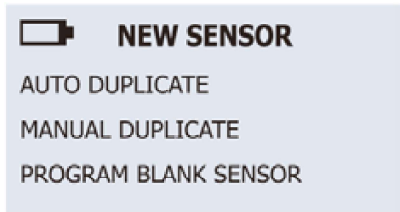
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**Please note:**  
**The duplication and programming function only works with the Herth+Buss wheel sensor. Other sensors cannot be written.**

Perform the steps described in 4.1.

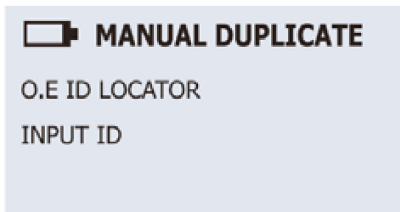
**Function selection:**

Use the arrow buttons to select **MANUAL DUPLICATE** and press the enter key to select.



**OE ID locator:**

Use the FIND OE ID function to help you find the sensor ID for an OE sensor. Press the enter key to select.



**NOTE**

The process of manually reading the correct sensor ID only works with OE sensors. An installed universal sensor cannot normally have the correct ID printed on it.

**Manufacturer selection:**

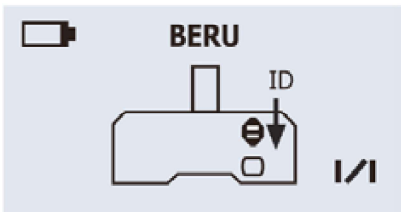
Use the arrow buttons to select the sensor manufacturer. Press the enter key to select.



**Please note:**  
**You can see the number of different sensor types from which you can select in the bottom right corner (e.g. 1/1).**

**Find OE ID:**

The AirGuard will show you where the ID is located. Certain manufacturers may have several sensor types. Use the arrow buttons to browse between the sensor types, or press the BACK button to go back.



**Enter ID:**

Use this function to manually program the ID of the OE sensor on the Herth+Buss wheel sensor. Press the enter key to select.


 **MANUAL DUPLICATE**

O.E ID LOCATOR

INPUT ID

**Enter the sensor ID:**

Use the arrow buttons to navigate. Press the enter key to enter the ID. (confirm each individual digit with the enter key). To finish, select the "Return" symbol on the right of the screen to program the manually entered ID.

 1 Cabriolet (E88)

0 1 2 3 4 5 6 7 8 9 ↵

After confirming the ID entered, it is possible to implement "WIRE PROGRAMMING" by locking the sensor in position in the sensor compartment or "WIRELESS PROGRAMMING" by holding the sensor in parallel with the device. This also works with not yet activated Herth+Buss wheel sensors already fitted in the tyre.

**Please note:**

**The AirGuard will automatically skip to the "Return" icon if the maximum number of digits for a sensor ID has been reached for the selected vehicle.**

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Please check whether the ID of the OE sensor is hexadecimal (0–9+A–F) or decimal (0–9) so that you select the right mode when duplicating manually. You may be asked before entry. We recommend setting the ID format to "automatic" in the settings menu. Refer to Section 7 in the table of contents for how to check this.



**4.4 Generating an unused sensor  
(setting Wheel: 1)**

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This function makes it possible to program a sensor for all the vehicles supported in the device which support automatic relearning.

**Please note:**  
**The programming function only works with the Herth+Buss wheel sensor. Other sensors cannot be written.**


 **NOTE**

- The Herth+Buss wheel sensor is locked in the sensor compartment and generated from the AirGuard's database. This provides both an ID and a specific vehicle protocol. The sensor must be locked for all applications.
- Herth+Buss recommends always checking the control unit with an OBD II-capable diagnostic tool, in order to delete TPMS faults or to relearn the control unit.

**Function selection:**

Use the arrow buttons to select **PROGRAM BLANK SENSOR** and press the enter key to select.

After selecting the function "AUTO DUPLICATE", it is possible to implement "WIRE PROGRAMMING" by locking the sensor in position in the sensor compartment or "WIRELESS PROGRAMMING" by holding the sensor in parallel with the device. This also works with not yet activated Herth+Buss wheel sensors already fitted in the tyre.

 **NEW SENSOR**

AUTO DUPLICATE

MANUAL DUPLICATE

PROGRAM BLANK SENSOR

**Programming an unused sensor:**

The AirGuard will now program the sensor for you by deleting the flash memory, programming the sensor and checking.



**NEW SENSOR**

(Esc) : Stop

PROGRAM SENSOR ...

**Programming complete:**

If the programming process has completed successfully, you will hear two short beeps.



**NEW SENSOR**

PROGRAM SUCCESSFUL

Sensor ID 1C1B7C9C

(Esc) : BACK (↵) : PROGRAM

**Please note:**

**Press the enter key again to reprogram the sensor. You can overwrite the Herth+Buss wheel sensor several times.**

**4.5. Generating a full sensor set Wireless (re)programming**

For wireless (re)programming it must be ensured that

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- All 4/5 sensors are activated
- These are written with different IDs

The AirGuard does this for you automatically. It is irrelevant whether Wheel: 1 or Wheel: 4 has been set in the Settings menu.

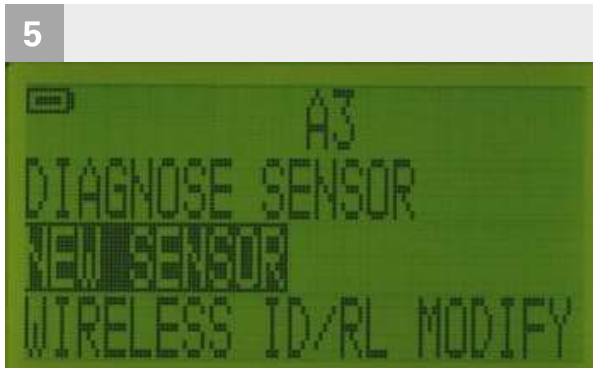
If you want to program a complete set of tyres, we recommend to change on wheel: 4, for your own overview.

**Function selection**

Wireless (re)programming is implemented as follows with the new sensors 70699443 and 70699434:

- Select your vehicle in the usual way.
- Select the function New sensor > Generate sensor
- Select Wireless Program

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**Positioning of sensors**

- Position all of the 1-5 non-written sensors to be programmed longitudinally next to the device
- (With setting Wheel: 4 select the first tyre position)



**Programming procedure**

- "Confirm" to wirelessly program the (first) sensor
- The AirGuard automatically scans all sensors in the immediate vicinity and programs the nearest non-written sensor with a new ID each time you "confirm".

Following each programming operation, a success message also showing the programmed ID appears briefly on the display. After 3 seconds the display automatically resets and new programming is then possible.

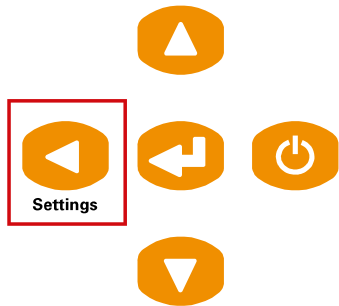


- Consecutively select the wheel positions in the vehicle pictogram and program the sensors in front of you.

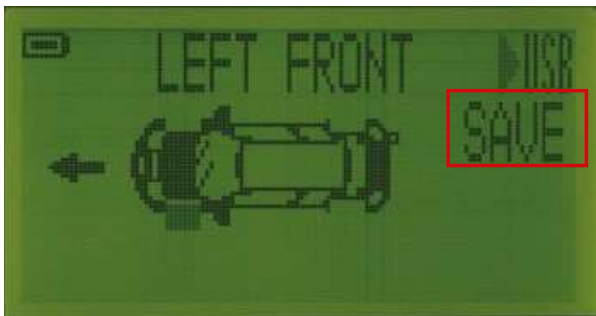
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The ID of sensors already programmed can be viewed at any time by selecting the wheel position in the vehicle pictogram. If all sensors have already been programmed or if an attempt is made to program an activated sensor again, the following error message will appear: "Target sensor already programmed."

Then press ESC to return to the previous menu.



The programmed data record can be stored. To do so select "Save" and give the data record a name consisting of up to 8 digits.



**Activation/first programming via the tyre**

- With 70699434/-443 it is also possible to activate/(re)program a non-activated sensor via a fitted, vented tyre.
- To do so please reduce the pressure to below 1.8 bar (26 psi).

 **NOTE**

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First programming as described here cannot be performed without previously selecting the correct vehicle, even though wireless reprogramming to other models is possible afterwards. The device retains the IDs of the sensors written. On returning to the vehicle the following message appears



Confirmation button to delete ESC/return/setting key to delete data.

- The tool also retains the previously used IDs in the background with the setting Wheel: 1.
- This is designed to prevent an ID being assigned twice in the same vehicle.

### 5.0 Wireless modification

#### 5.1 Copying and modifying a sensor

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**Please note:**  
**The duplication and programming function only works with the Herth+Buss wheel sensor. Other sensors cannot be written.**

 **IMPORTANT**

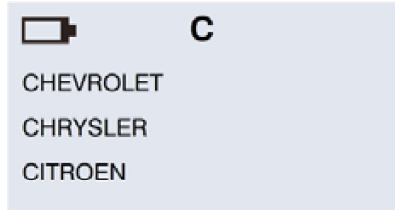
The Herth+Buss wheel sensor must have been programmed for the same vehicle before wireless modification.

**Manufacturer selection:**

Use the arrow buttons to navigate in the alphabetical display. Select the desired manufacturer using the enter key.

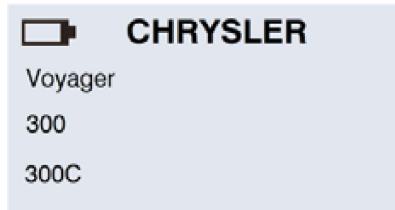


Use the arrow buttons to browse between the automotive manufacturers and select the desired manufacturer using the enter key.



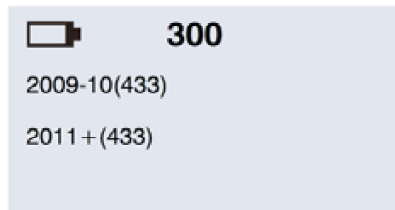
**Model selection:**

Use the arrow buttons to browse between the models and select the desired model using the enter key.



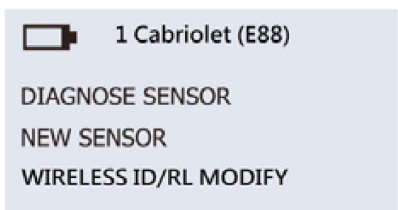
**Construction year selection:**

Use the arrow buttons to select the construction year and select by pressing the enter key.

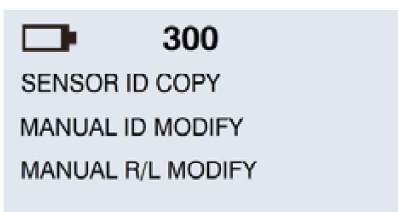


**Function selection:**

Use the arrow buttons to select **WIRELESS ID/RL MODIFY** and press the enter key to continue.



You can now choose from three functions.



**5.2 Wirelessly copying the sensor ID**

This function was developed to allow you to avoid the teaching process for new sensor IDs via OBD II.

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**Please note:**

**The duplication and programming function only works with the Herth+Buss wheel sensor. Other sensors cannot be written.**



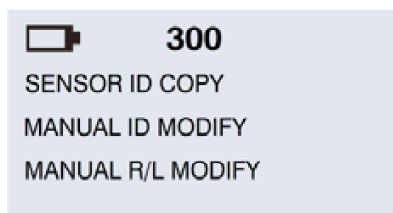
**TIP**

This functions allows you to change the ID when installed, via the tyre.

Perform the steps from point 5.1.

**Function selection:**

Use the arrow buttons to select **SENSOR ID COPY** and press the enter key to scan the old or OE sensor.

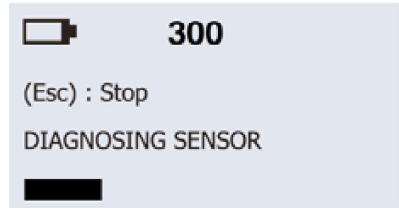




**Scanning the object ID:**

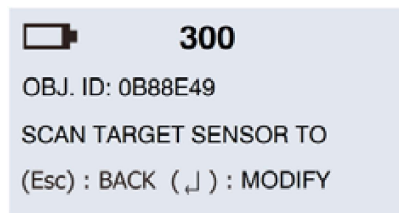
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Position the AirGuard in parallel with the sensor of the OE or object sensor. Press the enter key to diagnose the sensor ID of the OE sensor.



**Copying the ID to the sensor:**

The AirGuard displays the ID of the OE sensor. Position the AirGuard in parallel with the sensor and press the Enter key to copy this ID to the target sensor.

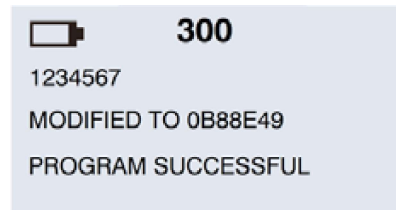


**Please note:**

**The target sensor should use the same vehicle protocol as the OE sensor. As soon as you have called up the sensor ID, press the enter button to copy directly to the target sensor. Pressing the BACK button deletes the sensor ID and the diagnosis must be repeated.**

**Modification complete:**

The AirGuard will now modify the target sensor for you. You will hear two short beeps after the sensor has been successfully modified.




### 5.3 Manually modifying the ID

**Please note:**  
**The duplication and programming function only works with the Herth+Buss wheel sensor.**  
**Other sensors cannot be written.**


#### Function selection:

Use the arrow buttons to select **MANUAL ID MODIFY** and press the enter key to select.

 **300**  
 SENSOR ID COPY  
 MANUAL ID MODIFY  
 MANUAL R/L MODIFY

#### Checking the original ID:


Position the target sensor in parallel with the AirGuard and press the Enter key to scan the original ID number to ensure that this really is the target sensor you wish to modify.

 **300**  
 SCAN ORIGINAL ID  
  
 (Esc) : BACK (↵) : TO SCAN

#### Scan complete:

The AirGuard will now show the target sensor ID. You will hear two short beeps after the sensor has been scanned. Press the enter key to record.

EN

 **300**  
 ORG. ID: 0B88E49  
  
 (Esc) : BACK (↵) : KEY IN


#### Enter the sensor ID:

Use the arrow buttons to navigate. Press the enter key to enter the ID digits.

 **300**  
0A99D52  
 0 1 2 3 4 5 6 7 8 9  
 A B C D E F ↵

#### Modification complete:

The AirGuard will now modify the target sensor for you. You will hear two short beeps after the sensor has been successfully modified.

 **300**  
 0B88E49  
 MODIFIED TO 0A99D52  
 PROGRAM SUCCESSFUL

**5.4 Manually modifying left/right (L/R)**

**EN** This function was developed to allow you to wirelessly modify the position for the left/right wheel on the target sensor.

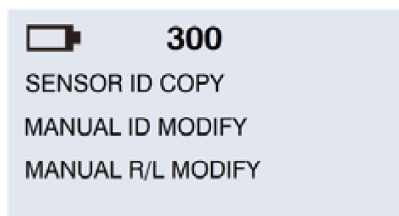
**If you adjust the sensor accordingly, change the tyre position on a vehicle that differentiates between left/right (L/R).**



If a vehicle differentiates between left/right (L/R), it is important to bear this in mind when programming the sensor and when mounting the wheel.

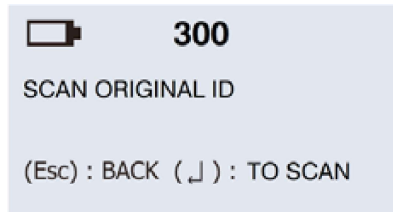
**Function selection:**

Use the arrow buttons to select **MANUAL R/L MODIFY** and press the enter key to select.



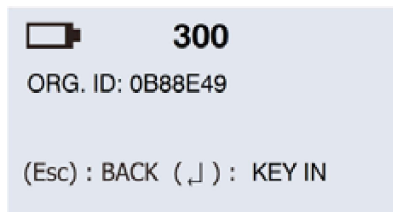
**Checking the original ID:**

Position the target sensor in parallel with the AirGuard and press the Enter key to scan the original ID number to ensure that this really is the target sensor you wish to modify.



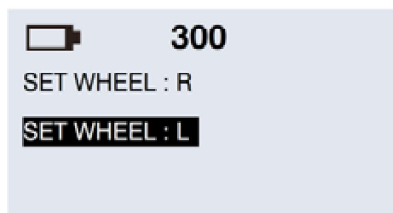
**Scan complete:**

The AirGuard will now show the target sensor ID. You will hear two short beeps after the sensor has been scanned. Press the enter key to set L/R.



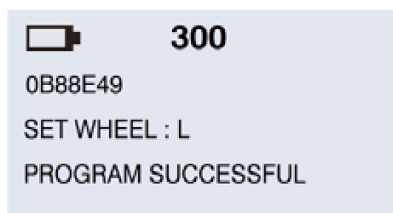
**Selecting the L/R wheel:**

Use the arrow buttons to select the L/R wheel and press the enter key to modify.



**Modification complete:**

The AirGuard will now modify the target sensor for you. You will hear two short beeps after the sensor has been successfully modified.



## 6.0 OBD II (just with 95990003)

In order to configure vehicles using OBD II, you will require the Herth+Buss OBD II expansion module with article number 95990003.

Please check the coverage first at:

[www.herthundbuss.com/airguard](http://www.herthundbuss.com/airguard)

Operating instructions on the procedure after this point are supplied with the expansion module.

EN



### 7.0 Data log for printer software "IDtoPC"

#### EN 7.1 Reading out and saving the data in the device

This function allows you to save up to 20 data records in the device, each with the values of up to 5 wheel sensors per vehicle, and then to transfer these to a PC using our "ID to PC" software.

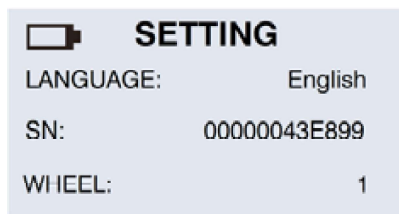
Up to 20 data records can be stored in the data log of the device, regardless of whether just 1 ID or up to 5 IDs of a vehicle are stored in one data record.



Save the values in your customer file or print them out for your customer.

#### Number of wheels:

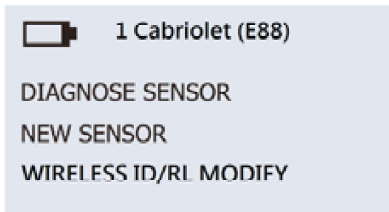
You can only save sensor data for the print function **ID TO PC** after setting **WHEEL: 4** under Settings in advance. Please first select the value 4 for the number of wheels in the settings menu.



**Please note:**  
If the wheel value is set to 1 in the settings, you can perform a normal sensor diagnosis of a single sensor on the vehicle. The device however only retains the value of the last wheel sensor.

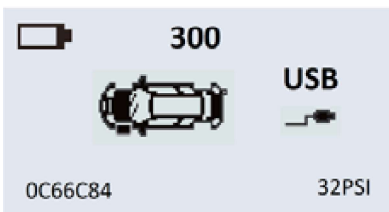
#### Function selection:

Use the arrow buttons to select **DIAGNOSE SENSOR** and press the enter key for the diagnosis.



#### Scanning the ID of the 4 wheels:

The display will show the image of a vehicle with 5 wheels (including spare wheel). Please use the arrow buttons to select the respective wheel and diagnose by pressing the enter key.



**Please note:**

**Tyres that have not yet been diagnosed will "flash" in the image. A "fixer" tyre is pre-diagnosed and the value is saved.**



If you receive the message "Double ID present", it means that the device has found multiple wheel sensors with the identical sensor ID. Please check whether all wheels have different sensor IDs, or if you have read the same sensor multiple times.

**7.2 New features**

- IDtoPC printer function extension
- Up to 20 data records (vehicles) can be stored
- As of update 1.28 the new printer software **MUST** be downloaded from the home page!
- Language selection: German, English (US), Italian
- Selection menu for display and switching between the up to 20 data records

**7.3 Procedure**

- Settings Wheel: 4
- Select the vehicle
- Select sensor diagnosis
- Navigate in the vehicle pictogram
- Read out all sensors (incl. spare wheel)
- Select "SAVE" to store the wheel positions, tyre pressure and temperature.
- Each data record name can have up to 8 positions.
- After saving, a brief message appears containing the no. of the data record, e.g. 10.



- IDs can of course also be stored by way of the programming functions.
- In this case however no other values (pressure, temperature) are stored, just the IDs

EN

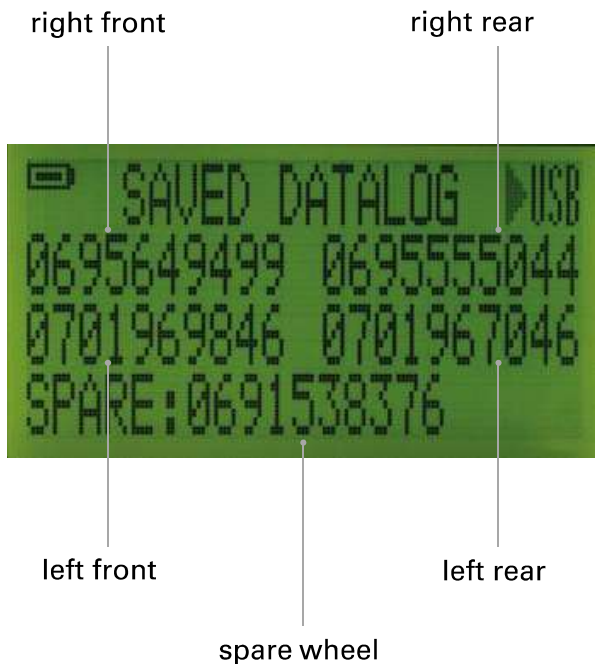
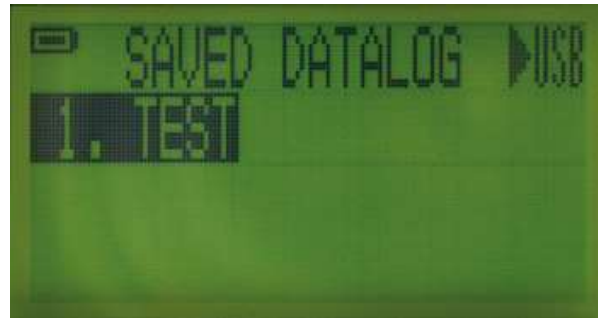
### 7.4 Display of data records

EN

Manufacturer selection also shows the number of data records already stored.

- Select SAVE and navigate through the data records with the arrow buttons and "Confirm" to select.
- The vehicle on which the ID(s) has/have been programmed will then appear.
- Confirm again to obtain a display of all IDs.
- All the IDs read out will then be displayed on selecting a vehicle record.
- The IDs are always shown in the order of the tyre positions in the vehicle pictogram.

- Give a name to the vehicle/data set you want to save!
- Data sets have a position which is displayed.
- You will be notified accordingly once the memory is full.



**7.5 Transfer of data to PC**

**ID to PC software**

- Download the latest version of the IDtoPC software from our home page: [www.herthundbuss.com/airguard](http://www.herthundbuss.com/airguard)
- Also watch the relevant product films at: [www.herthundbuss.com/channel](http://www.herthundbuss.com/channel)

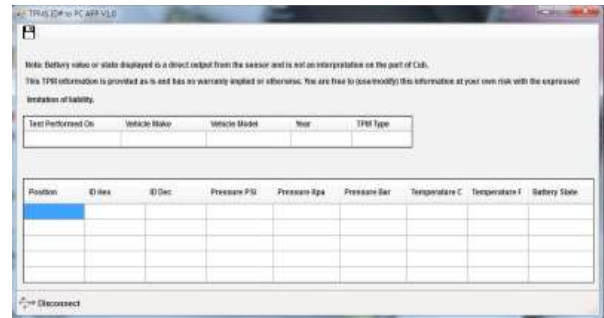


**NEW!**

- Language selection: German, English (US), Italian
- Selection menu for display and switching between the up to 20 data records.
- Ready for connection to PC:

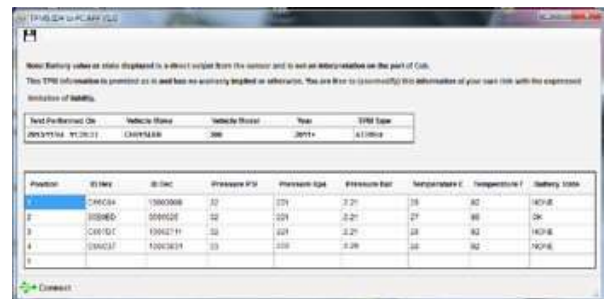
**Connect with the PC:**

Carry out the TPMS „ID to PC“ on you PC and connect the AirGuard with an USB-cable. Please find the latest software here: [www.herthundbuss.com/AirGuard](http://www.herthundbuss.com/AirGuard).



**Saving the ID data:**

The ID data are automatically loaded into the software (3–5 seconds). After this, you can save the data by clicking on the symbol in the top left corner. The data are saved in JPG format. You can also print the values as an image or save them in Excel format.



**Please note:**

1. In the event that the AirGuard turns off, the values will be saved. Please select the vehicle and diagnosis function again. When the device then asks "Delete TPMS data?", press the back button to negate this.
2. Please note that your PC will install drivers when you connect it to the AirGuard with the USB cable for the first time. Please be patient. If required, disconnect the USB cable and reconnect the AirGuard.



## 7.6 ID to PC software

**EN** Transfer the data from your AirGuard tool to the software as follows:

- Download, install and open the software
- Switch on the AirGuard
- Switch via Vehicle manufacturer selection to "SAVE" and "Confirm"
- Use the USB cable supplied to connect the AirGuard to your computer
- The IDtoPC program indicates "Connected" as soon as a USB connection has been successfully established
- The data are then transferred automatically.

As soon as the tool is connected to your computer with the printer software opened up and the software has detected the device, all the stored data records will be transferred automatically.

These can then be selected, viewed or printed out/stored on your computer as required. The software is set such that the last stored position is automatically displayed first.

- Connect/Disconnect
- Selection of data records
- Selection of language
- Data input option
- Each data record can be exported as required (image, XLS, TXT)

**Please note:**

**1. The tool installs the USB drivers on first connection to your computer. This may take a few minutes. If you have the impression that this is taking too long, interrupt the connection and connect the AirGuard to your PC again with the USB cable.**

**2. If you connect the AirGuard to your computer without selecting the data log beforehand under Manufacturer selection, the device assumes that you want to perform an update and informs you: Boot Loader Ready. For this reason always select the data log first.**

## 8.0 Settings

### 8.1 Setting the AirGuard device

Press the back button to open the settings menu from the manufacturer selection.



Use the arrow buttons to browse through the settings and change the parameters with the confirmation button.

#### Language:

Press the enter key to select the preferred language.

SETTING	
LANGUAGE:	English
SN:	00000043E899
WHEEL:	1

#### Number of wheels:

If you want to only read certain sensors individually, select the value 1. If you want the AirGuard to save the sensor data for the print function, select the value 4.

SETTING	
LANGUAGE:	English
SN:	00000043E899
WHEEL:	1

**Please note: Select the value 4 for the "ID to PC" function.**

EN

#### Temperature:

Press the enter key to switch between F° or C°

SETTING	
TEMPERATURE:	°C
PRESSURE:	PSI
ID FORMAT:	Auto

#### Pressure:

Press the enter key to switch between bar, PSI and kPa.

SETTING	
TEMPERATURE:	°C
PRESSURE:	PSI
ID FORMAT:	Auto

**ID format:**


EN

Use the enter key to switch the ID format between decimal and hexadecimal value.

**Please note:**  
**The default setting is "AUTO".**  
**This means the device differentiates automatically.**




We recommend leaving this setting on **AUTO**.

 <b>SETTING</b>	
TEMPERATURE:	°C
PRESSURE:	PSI
ID FORMAT:	Auto

**Automatic power-off:**

The user can adjust how soon the AirGuard switches itself off after it has not been used for a certain period of time. This function can also be deactivated. Press the enter key to select the desired time for the automatic power-off.


 <b>SETTING</b>	
AUTO OFF:	3 min
DISPLAY CONTRAST:	15
BUZZER:	ON



We recommend activating automatic power-off to lengthen the battery life and allow you to work with the device for longer.


**Display contrast:**

It is possible to adjust the contrast of the display. Press the enter key and then use the arrow buttons to adjust up and down between 01 and 30.

 <b>SETTING</b>	
AUTO OFF:	3 min
DISPLAY CONTRAST:	15
BUZZER:	ON

**Buzzer:**

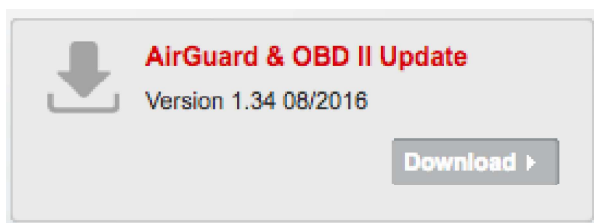
You can set a beep for the device that sounds after a sensor has been successfully read out and programmed. Press the enter key to switch to the buzzer and use the arrow buttons to select the **ON** and **OFF** settings.

 <b>SETTING</b>	
AUTO OFF:	3 min
DISPLAY CONTRAST:	15
BUZZER:	ON

Press **ESC** again to return to the manufacturer selection.

## 9.0 Software

1. Download and save the software (approx. 1 MB). Download the latest version of the software at:  
**[www.herthundbuss.com/AirGuard](http://www.herthundbuss.com/AirGuard)**.



The software is suitable for PC and Mac systems alike.

You can find the corresponding video instructions on our YouTube channel:  
**[www.herthundbuss.com/channel](http://www.herthundbuss.com/channel)**



2. Unpack the zip folder and open the unpacked folder. Double click the "bin" folder and then "UpdatePlatform.exe".
3. Installation is not necessary. The software executes itself without installation.



EN



Always connect your AirGuard to a power source during the update process.

4. Use the USB cable supplied to connect the AirGuard to your PC and then switch on the AirGuard.
5. The software detects the AirGuard and indicates that it is connected.
6. Click the "Update" button to start updating.
7. The updating process takes approx. 15 minutes.
8. Disconnect the AirGuard from your PC as soon updating has been completed. This can be seen from 100% on the progress bar, a green lamp in the software and "Reset" on the AirGuard display.

## 10.0 Configuration procedures

**EN**

Instructions for the correct OBD-II configuration procedure for the following vehicles built in 2015 and 2016:

- Mitsubishi ASX, Outlander, Spacestar/  
Mirage, i-MiEV, Pajero
- Suzuki Vitara
- Citroen C4 S-Cross
- Peugeot 4008

**Please note:**

Triggering = Activation/Readout  
Auto Off = See Settings

**IMPORTANT**

- The configuration procedure may last a few minutes. This is regardless of how long the "triggering" process takes.
- In order to avoid errors, please switch off the "Auto Off" function on the AirGuard. If the AirGuard turns off during the configuration procedure, this procedure will be interrupted and the vehicle will display the message "Maintenance" in the instrument cluster.
- Furthermore, the start button for the ACC ignition will be blocked. To rectify this error, please disconnect the OBD II module completely from the vehicle, close all doors and lock the vehicle. Then unlock the vehicle and connect the OBD II module once more. If you try to read out the vehicle's sensor ID at this stage, you will only see "FFFFFFFF" displayed. This is the result of the configuration procedure being interrupted before.

**Please start the configuration procedure again as follows:**

- Select your vehicle with the correct construction year. Trigger all sensors in order to verify whether a sensor is actually installed in each of the tyres (spare wheel!).
- Select the OBD function for your vehicle in the AirGuard.
- Connect the AirGuard to the OBD II module and then connect the OBD II module to the vehicle. -> "OBD connected"
- Select "Write ID" ->The device will now commence the process. If you see the message "Write ID" on the display, you can start to trigger the individual wheel sensors for configuration.
- You only require 1 AirGuard tool to trigger the sensors. To do this, you must decouple the AirGuard tool from the OBD II module. The device will indicate on the screen when you are allowed to do this: "Unplug tool..." Proceed by changing from the OBD function to the normal sensor diagnosis function in the AirGuard. Please observe the activation sequence when triggering:
  - i. Left front
  - ii. Right front
  - iii. Left rear
  - iv. Right rear
  - v. Spare wheel
- After performing the process, please look to see whether the OBD II module is lighting a green LED. This means that everything is OK. A red LED means that an error has occurred when performing the procedure. Repeat the entire procedure from IMPORTANT onwards.
- Read out the IDs after the configuration procedure has been successfully completed by connecting the AirGuard to the OBD II module again, switching to the OBD function and selecting "Read ID".

## 11.0 Warranty

**EN** The product comes with a statutory warranty according to German law.

Please contact your local distributor to repair or exchange the product within the terms of the warranty. A receipt and date of purchase are required for approval of the warranty claim.

Herth+Buss bears no responsibility for any direct or consequential damage resulting from the use of the product.



Replace the tyre valves and screws when changing on an axle basis, changing the tyres or replacing the RDKS sensors. Use new valves and screws when assembling or reassembling an RDKS sensor.








### **WARNING**

- Only use Herth+Buss replacement parts. Using parts from other brands will result in the system not working and will void any warranty claims.
- Observe the speed limits for the valves and sensors: 70699433+443 with aluminium valve  
= 250 km/h  
70699434 with rubber valve  
= 210 km/h

## 12.0 Safety and precautions

Please read this short manual carefully. Failure to comply with the instructions in this manual could be dangerous or illegal.

EN

Symbol	Description
	<b>Safe switch-on</b> Do not switch the device on if wireless use is not permitted or if the device may cause danger or interference.
	<b>Correct use</b> Only use the device in the usual position as described in the product documentation. Only touch the antennae when absolutely necessary.
	<b>Water resistance</b> The device is not water resistant. For this reason, ensure that it is kept dry.
	<b>Accessories and batteries</b> Only use approved accessories and rechargeable batteries. Do not connect to incompatible products. The battery must be fully charged for the first use.
	<b>Switch off when refuelling</b> Do not use the device in areas where vehicles are refuelled. Do not use the device in the proximity of fuel or chemicals.
	<b>Interferences</b> All wireless devices can be affected by interferences. These may have a negative effect on performance.
	<b>Connection with other devices</b> If you connect to any other device, ensure that you have read the accompanying operating manual for detailed safety instructions. Do not connect to incompatible products.



EN



**Qualified service**

This device may only be installed or repaired by qualified service personnel.



**Disposal**

Do not dispose of batteries by burning them, as this may lead to explosions. Damaging the batteries may also cause them to explode. Dispose of the batteries according to local regulations. Recycle the batteries if possible. Do not dispose of the batteries as household waste.

## 13.0 Appendix

### 13.1 Note on conformity with EU regulations

All CUB sensor products with the CE marking fulfil the central requirements and further relevant provisions of the directive 1999/5/EU. A copy of this conformity declaration can be provided upon request.



### 13.2 Disposal of waste electrical and electronic equipment

This marking on a product and/or accompanying documentation indicates that the product meets the EU directive 2002/96/EC and that the product must be treated as waste electrical and electronic equipment (WEEE) during disposal.



EN

Please contact your local wholesaler should you require support or answers to general questions, or to have the product repaired or replaced under warranty.