

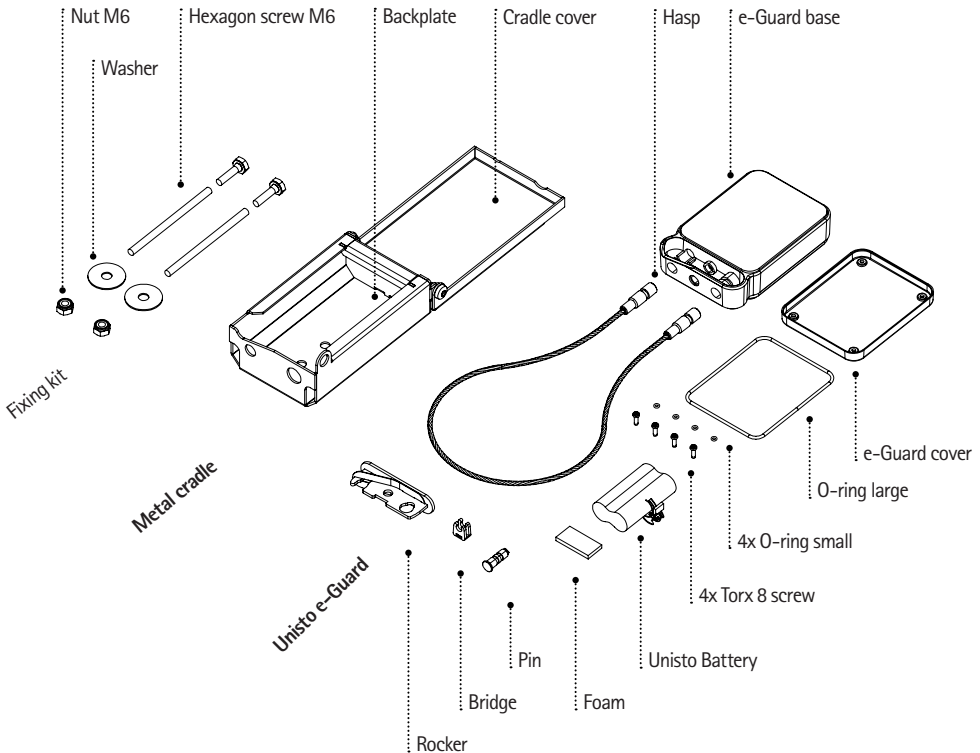
# User Guide

Unisto e-Guard / Unisto e-Guard Data Trans

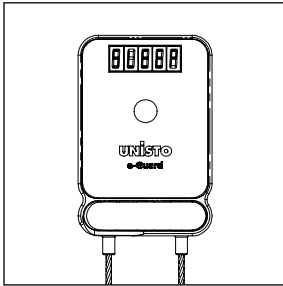


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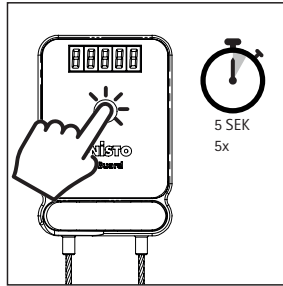
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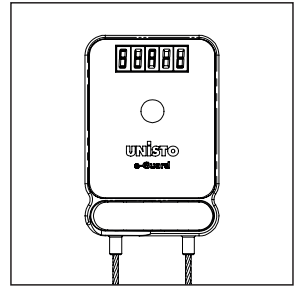
## Wake-up your e-Guard:



When the button is pressed, SLEEP appears on the display.



To activate the device you have to press the button 5 times within 5 seconds.



After that the display shows StArt for a short time. Now the seal is ready and creates sealing numbers.

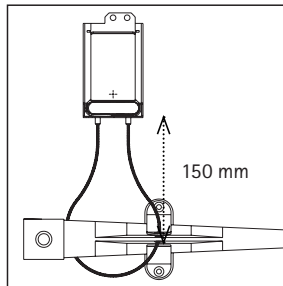
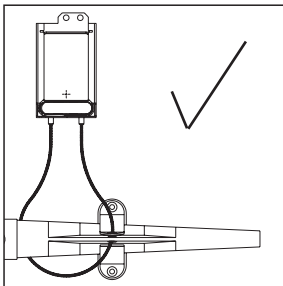
## Installation guide:

### Additional tools

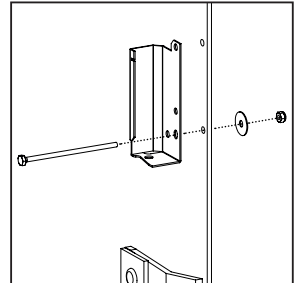
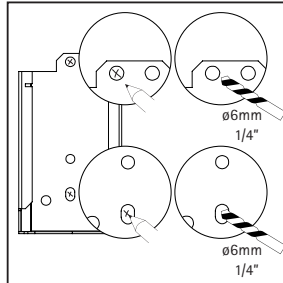
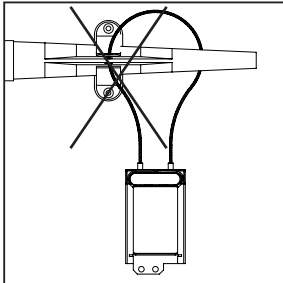
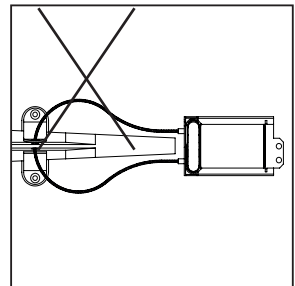
Saw  
drill  $\varnothing 6\text{mm}$  or  $1/4''$

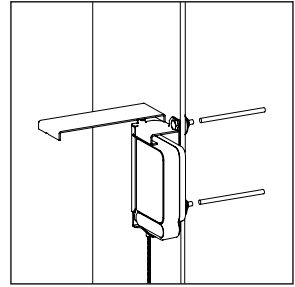
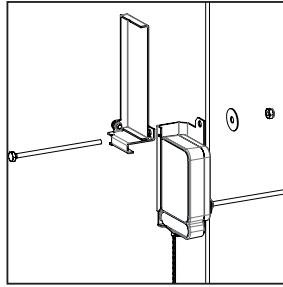
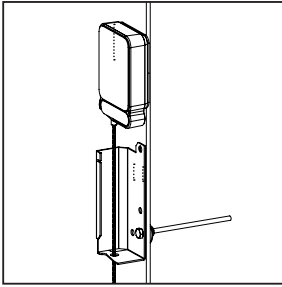
Open-end spanner 10  
pen

file



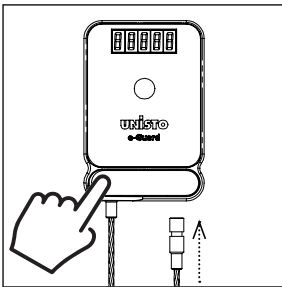
Make sure the door latch cannot be opened.



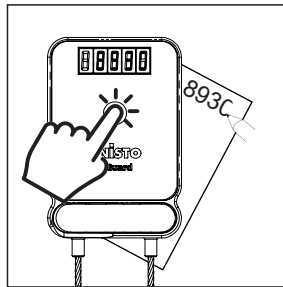


Cut excess with a saw and remove any sharp edges with a file.

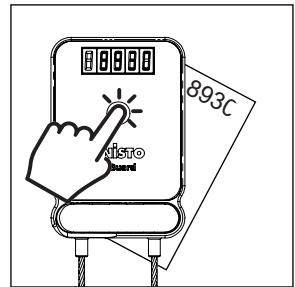
## How to use:



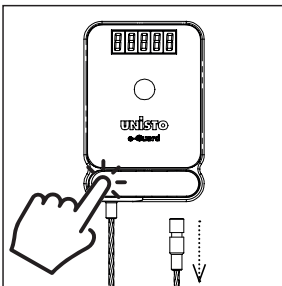
Close the seal



Push the button and write down the 4 digit unique sealing number.



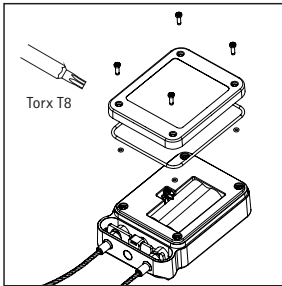
Push the button on your final destination and check your code again.



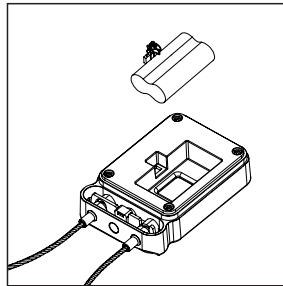
unlock your seal



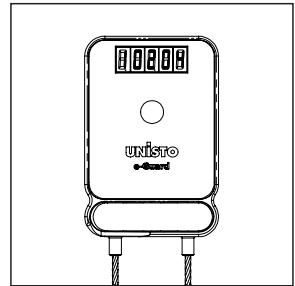
## Battery change:



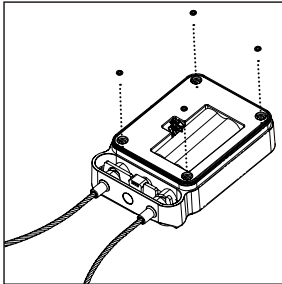
Remove the back cover and the old battery. Use a replacement battery from Unisto.



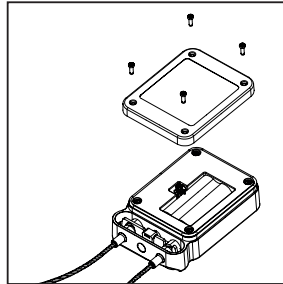
Plug in the new battery and turn the e-Guard to check the display.



While booting the display lights up.

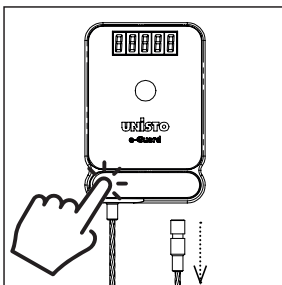


Mount the back cover. Place all five O-rings delivered with the battery.

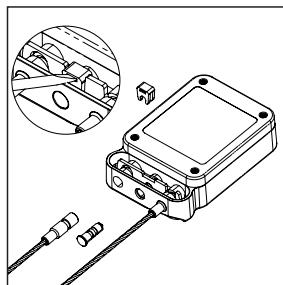


Fix the back plate with the four new screws.  
Do not overtighten the screws!  
Max. permissible torque: 0,25Nm!

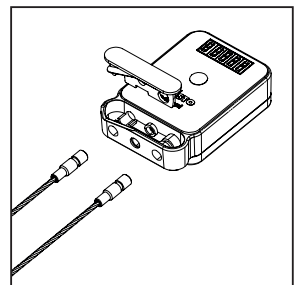
## Hasp replacement and calibration:



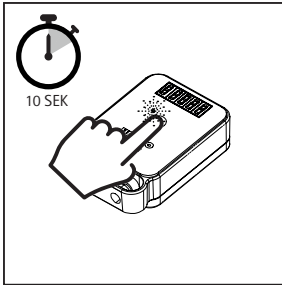
Push the rocker and unfeed the loose end of the hasp.



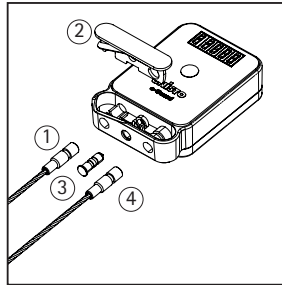
Remove the bridge.



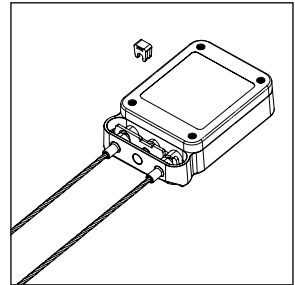
Remove the rocker and the hasp completely.



Push the touch button until the green LED flashes for the second time and the display shows "CAL". Push the button again and the display shows "oPEn". Push the button a second time and two different randomly generated 5 digit code appear on the display.

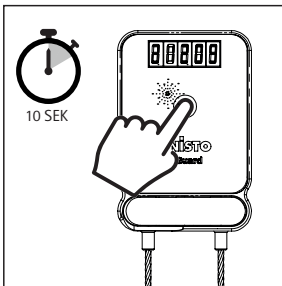


After the numbers "CLOSE" appears on the display and the new hasp ends must be inserted.



When the calibration was successful the display will show "donE". If calibration was unsuccessful the Display will show "Error" and calibration will start over.

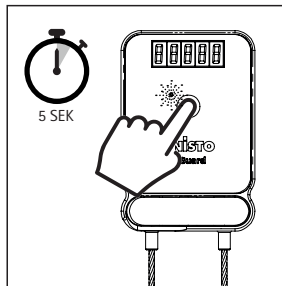
## Device functions:



### Firmware

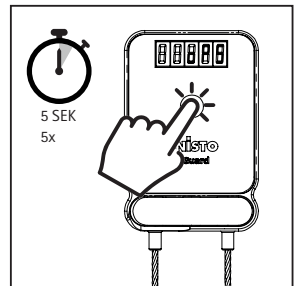
Touch the button for 10 seconds until the green LED flashes for the second time.

Firmware version, for example 2.12.09.



### Activate and deactivate Bluetooth

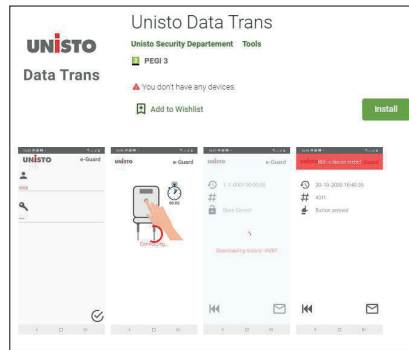
Touch the button for 5 seconds and the green LED starts/stops flashing.



### Operations (oPS)

Touch the button 5-times in 5 seconds. The total amount of operations is shown.

## App Function Unisto e-Guard Data Trans:

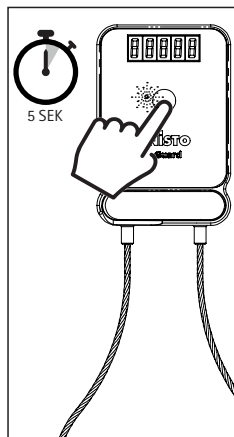
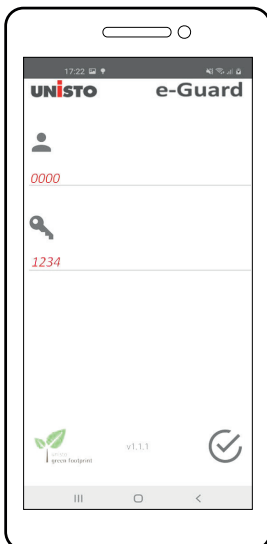


The app is developed for Smartphones with operating system Android 8.0 or higher. Download the app from the store and follow the instructions.

<https://play.google.com/store/apps/details?id=com.unisto.eguard>

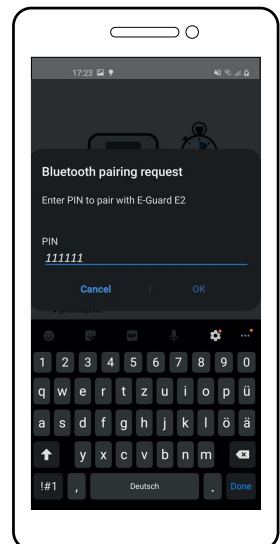
### Initial operations:

It's important to make sure the e-Guard was once connected to the smartphone before use!



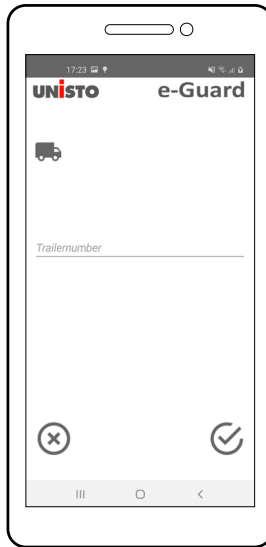
### Activate Bluetooth

Touch the button for 5 seconds and the green LED starts flashing.





Set trailer number with



The trailer number can only be set once!

Cancel



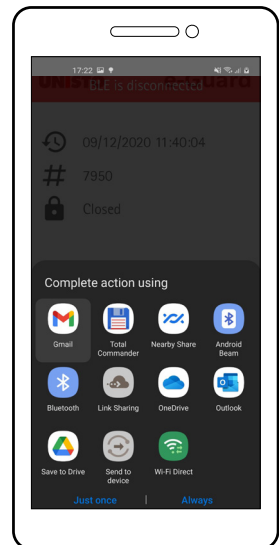
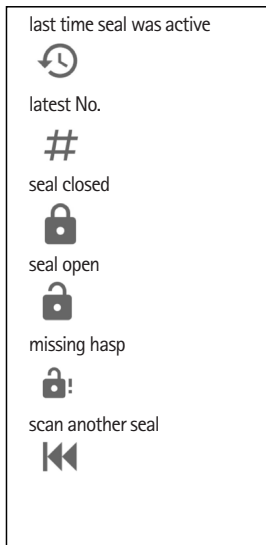
Confirm



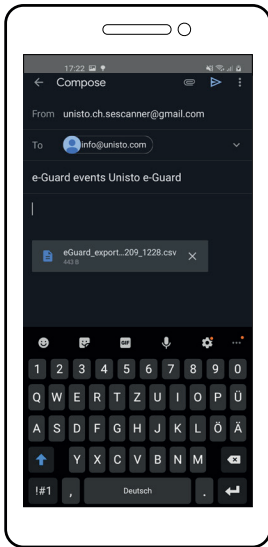
Go to the download with



Send data with



Choose your mailing program



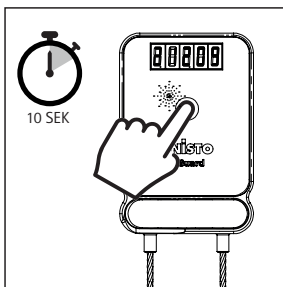
Type in a valid e-mail address to send the csv file.

## Firmware Update Unisto e-Guard Data Trans:

To ensure that you always benefit from the latest features and improvements of our products, we recommend you to install the firmware update after receiving the notification from Unisto about an update. It is the responsibility of the user to ensure that you are always using the latest version of our firmware. Please note that using outdated firmware versions may result in potential functional limitations or security risks. We would like to point out that we cannot accept any liability for damage caused by using an outdated version of our firmware

### Preparation Seal:

**Step 1: Check the current firmware version**



#### Attention

If the firmware version is **equal** or **higher** than x.xx.13, please follow **Step 2A**

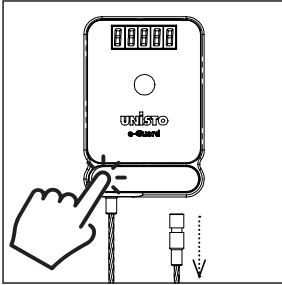
If the firmware version is **lower** than x.xx.13, please follow **Step 2B**

#### Firmware

Touch the button for 10 seconds until the green LED flashes for the second time. Firmware version, for example 2.12.09.

## Step 2A: Unlock seal

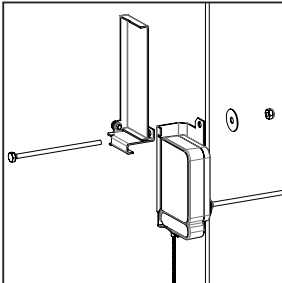
firmware version is **equal** or **higher** than x.xx.13



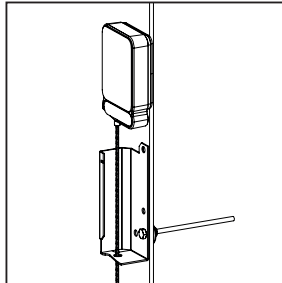
Push the rocker and unfeed the loose end of the hasp.

## Step 2B: Remove Hasp

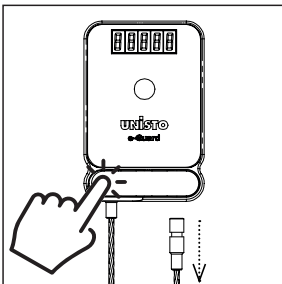
firmware version is **lower** than x.xx.13



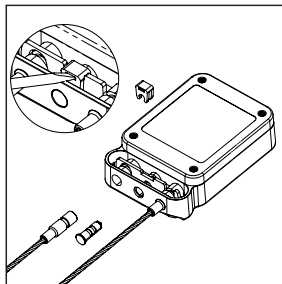
Loosen the upper screw



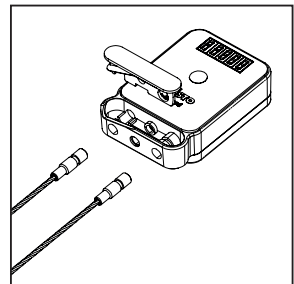
Take out the e-Guard



Push the rocker and unfeed the loose end of the hasp.



Remove the bridge. Tool needed slot screwdriver, approx. size 4.5mm (0.04 in)



Remove the rocker on the hasp completely.

## Preparation Smartphone:

### Step 1: Install the app for communication

For uploading the Firmware an app is needed, please go to the Google Play Store and download the following app:

#### nRF Device Firmware Update

Nordic Semiconductor ASA

10'000+  
Downloads

PEGI 3

Installieren

Auf die Wunschliste



Kontaktdaten des Entwicklers

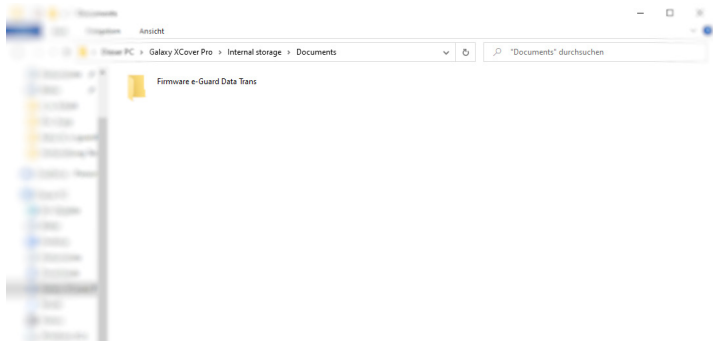
<https://play.google.com/store/apps/details?id=no.nordicsemi.android.dfu>

### Step 2: Prepare the firmware file for upload

Open the website e-Guard Firmware update. You will receive the link from your Unisto contact person.

Please follow the instructions on the website and download the recommended firmware.

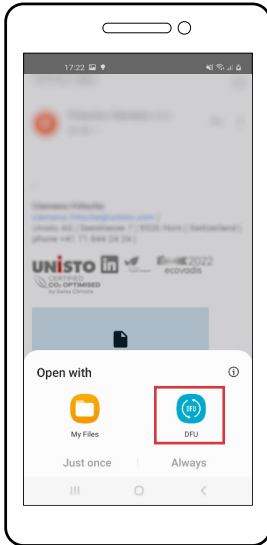
The new firmware file (xx\_xx\_xx\_fota\_update\_file\_[bluetooth-for-xxxxxx-hardware].zip), which you have downloaded (see Downloads folder), must be sent to the device on which the app (nRF Device Firmware Update) is installed. This can be done by email (easier handling) or directly via a USB cable.



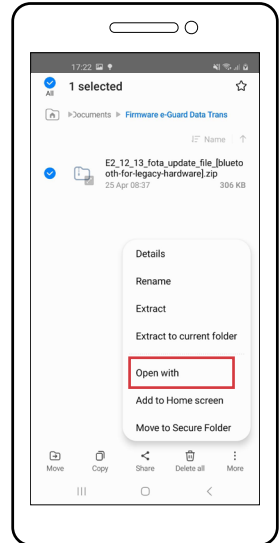
## Update the seal

### Step 1: Select file & open the app

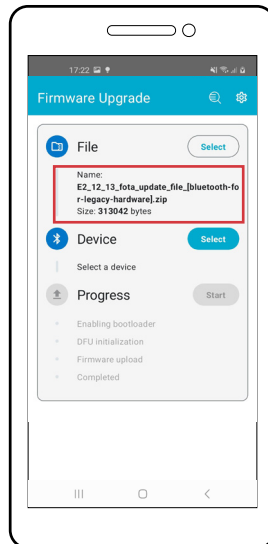
Select the new firmware file (xx\_xx\_xx\_fota\_update\_file\_[bluetooth-for-xxxxxx-hardware].zip) and open it with the app (nRF Device Firmware Update).



E-Mail



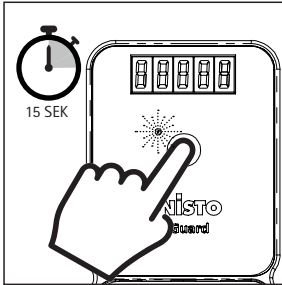
USB cable



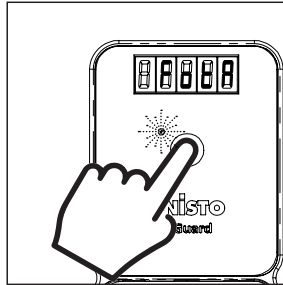
Firmware file name is shown in the nRF-app



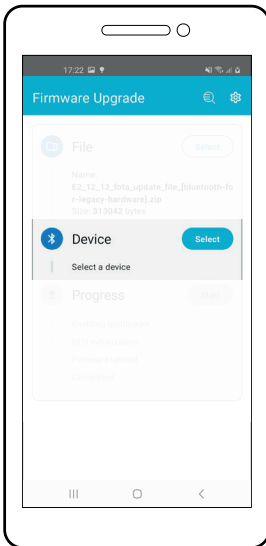
## Step 2: Activate the FOTA mode & select device



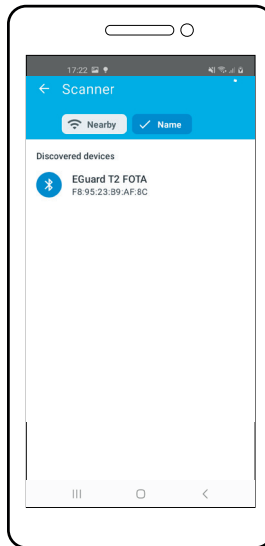
Press the touch for 15 seconds, when the green LED flashes for the 3rd time release the touch



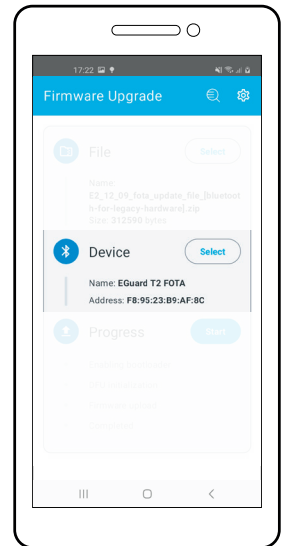
On the display you can read **FotA**, which means **Firmware over the Air**. Now the seal is ready to receive a new firmware



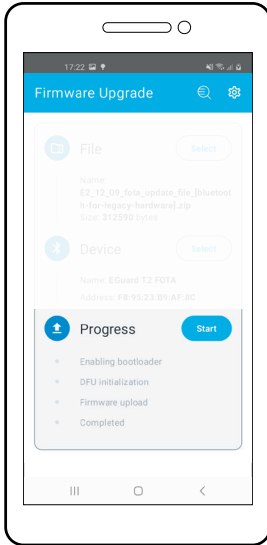
click select



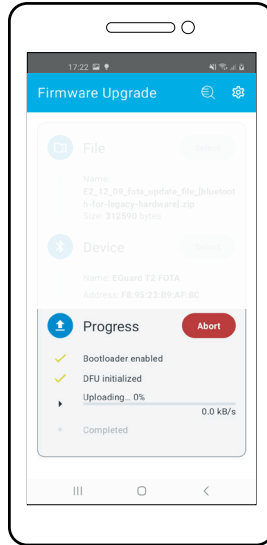
select e-Guard



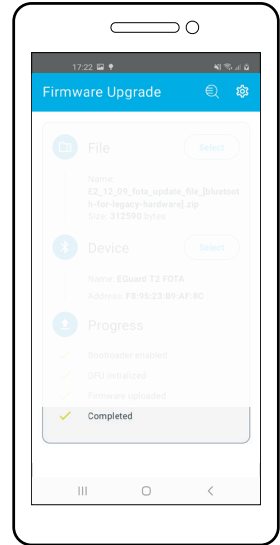
e-Guard was selected



click start



upload in progress



check the completed status

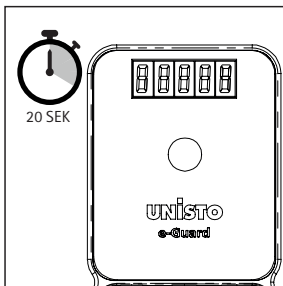
### Attention:

If the firmware version is **equal** or **higher** than x.xx.13, please follow **Step 4A**

If the firmware version is **lower** than x.xx.13, please follow **Step 4B**

### Step 4A: Wait for booting process

firmware version is **equal** or **higher** than x.xx.13



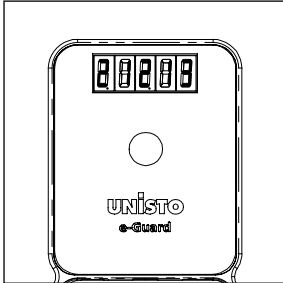
The booting process takes about 20 sec. During this time nothing is displayed and the device doesn't respond. After that the device works as usual

## Step 4B: Check booting process

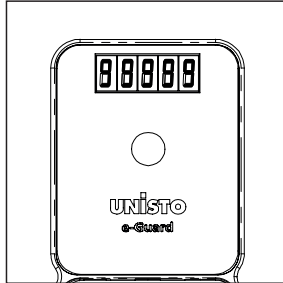
firmware version is **lower** than x.xx.13

After the seal receives the new firmware it will start the boot process.

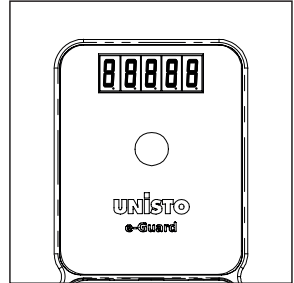
**CAUTION!** If the seal does not receive a new firmware or there were problems with the transfer, it restarts with the old version!



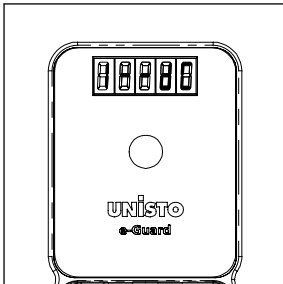
Latest version of firmware, please check carefully



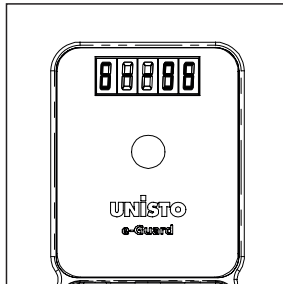
Start of display test and booting



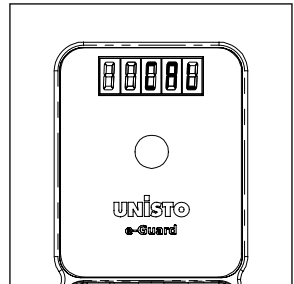
End of display test



Displaying the MAC address and booting.



MAC address has 6 steps

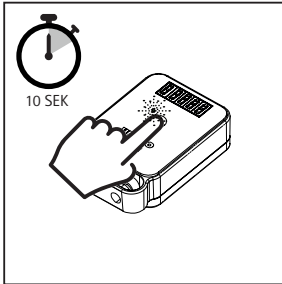


The seal has been started up and now the hasp must be married to the seal again via the calibration.

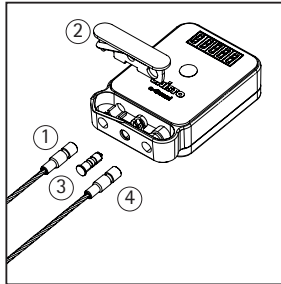
**Note:** When the seal starts the booting process you can already start the upload process with the next seal.

## Step 4B: Calibrate and mount the hasp

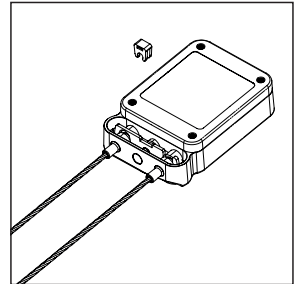
firmware version is **lower** than x.xx.13



Push the touch button until the green LED flashes for the second time and the display shows "CAL". Push the button again and the display shows "oPEn". Push the button a second time and two different randomly generated 5 digit code appear on the display.



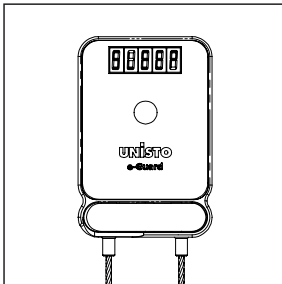
After the numbers "CLOSE" appears on the display and the hasp ends must be inserted. Push the touch button again.



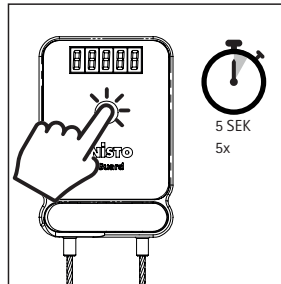
When the calibration was successful the display will show "donE". If calibration was unsuccessful the Display will show "Error" and calibration will start over.

## Step 4B: Start the seal

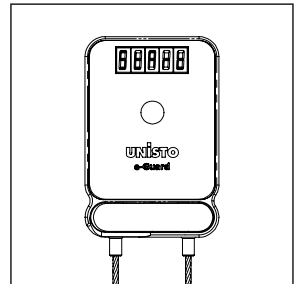
firmware version is **lower** than x.xx.13



When the button is pressed, SLEEP appears on the display.



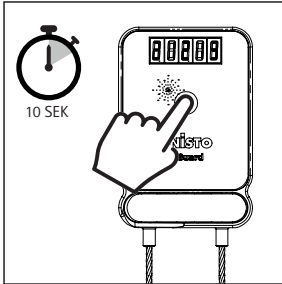
To activate the device you have to press the button 5 times within 5 seconds.



After that the display shows StArt for a short time. Now the seal is ready and creates sealing numbers.

**Step 5: Control firmware**

Before you mount the seal again on the truck we recommend controlling the firmware version again.



Touch the button for 10 seconds until the green LED flashes for the second time. Firmware version, for example 2.12.13.

**Step 6: Note the serial number**

We strongly recommend you to note the serial number of each seal. If you tell us which seals you updated we will add a comment in our database. If you ever have problems with the seal again we can provide better help with this information.

## Warnings:

- Apply and use Unisto e-Guard as described in this manual (scan the QR code on first page)
- Do not try to recharge the battery, or expose to heat above 100 C, risk for fire, explosion and severe burn hazard.
- Wrong connection of the battery pack connector will ruin the electronics!
- Moist in the battery compartment could ruin the electronics!
- A qualified person only should replace the battery, the cable and do the initialisation!
- Max. installation height 2 meters
- Do not pressure wash.
- Do not drill holes or hammer the product.
- Only certified original cables can be used.
- Not Atex certified
- Only the special battery pack from Unisto can be used.
- For return shipments, all national and international regulations for the transport of dangerous goods must be complied with.

## Correct disposal:

The responsible disposal of Unisto e-Guard serves to protect public health and the environment. Please do not dispose of end-of-life lithium powered Unisto e-Guard together with your regular household or business waste. Please take them to appropriate WEEE compliant electrical recycling centres or to designated battery and small electricals drop-off sites in your community.

## Warranty:

Warranty Policy for Unisto Electronic Seals Policy for Unisto Electronic Seals

### General

The warranty commences on the date of sale. For customers the warranty will expire 24 months from this date. This commencement date can be found on the delivery note received with the goods, on the sales invoice or alternatively by reading the production code from the serial number on the back of the product i.e. H2520 would be week 25 / year 2020.

It is mandatory that the serial number is still intact on the product when requesting a warranty repair. Failure for this could result in the product being deemed out of warranty. Products covered under the Unisto warranty may be repaired or replaced in the following ways:

- a) by replacing components with either new or parts that are equivalent to components, which have been discontinued
- b) with an equivalent product which may have been subject to prior use
- c) with a new unit Repair procedure is according to the current easy repair process. All defective products must firstly be returned to the nearest Unisto Site. Repairs may only be carried out at the Unisto site. Our aim is to repair or replace faulty units within 10 working days upon receipt of the units in UCH. Carriage will be paid for warranty repairs dispatched, not collected, only. During the warranty period Unisto will replace or repair products at its own discretion.

### 2. Exclusions

The warranty does not apply to products where:

- a) the serial number is removed or tampered with.
- b) the product is damaged or rendered defective as a result of accident, misuse, abuse, contamination, and improper or inadequate maintenance.
- c) the product has been modified or serviced by anyone other than Unisto.
- d) the product has not been fitted/used in accordance with the fitting instructions
- e) the unit is outside the warranty time period detailed above.
- f) the issue is related to a replacement part that needs to be replaced after some time of use (hasp, battery, metal cradle, etc.)

### 3. Outside Warranty

Units that fall outside the warranty period may be repaired by Unisto at the customers' discretion. Repair procedure is according to the current easy repair process.

No carriage is included. An easy repair charge is applied for this service: Charges apply according to the latest repair order Form. 96

**Please note:** Charges do apply regardless of the fault.

Should any of the exclusions listed above under paragraph 3 apply, then an additional charge may be made on top of the easy repair charge. This will be quoted separately, and will be dependent on the type of fault discovered. In addition Unisto will not normally repair a standard unit, which is deemed uneconomical to repair. Repairs or replacement parts are warranted to be free of defect in materials or workmanship for 3 months. Our aim is to repair or replace faulty units within 10 working days after custom clearance.

### 4. Annex

These terms and conditions supersede any prior agreements. No change to the conditions of this Limited Warranty is valid unless it is made in writing and signed by responsible product manager of Unisto Switzerland. Unisto reserve the right to amend this document at any time.

Horn (Switzerland), 23th September 2021