

Big Manual

EasyCheck bird scale



Operation manual
Code No. 99-94-0987 GB
Edition: 11/2025



Big Dutchman®

EC Declaration of Conformity



Big Dutchman.

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In accordance with the EC directive:

- Low Voltage Directive 2014/35/EU

Further applicable EC / EU directives:

- RoHS Directive 2011/65/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU



The product named below was developed, designed and manufactured in accordance with the above mentioned EC / EU Directives and under the sole responsibility of Big Dutchman.

Description	EasyCheck
Serial number and year of construction	According to the customer order no.

The following harmonised standards were applied:

- ETSI EN 301 489-1 V2.2.3:2019 EMC Common technical requirements
- ETSI EN 301 489-3 V2.3.2:2023 EMC Specific conditions for short range devices
- ETSI EN 300 220-2 V3.2.1:2018 Short range devices operating in the frequency range 25 MHz to 1 000 MHz
- DIN EN 61000-6-1:2019-11 EMC Immunity standard for residential, commercial and light-industrial environments
- DIN EN 61000-6-3:2021-03 EMC Emission standard for equipment in residential environments
- DIN EN 62368-1:2021-05 Audio / video, information and communication technology equipment – Part 1: Safety requirements
- EN 60204-1:2018 Safety of machinery – Electrical equipment of machines – Part 1: General requirements

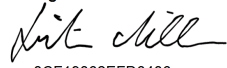
- EN IEC 62311:2020-12 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)

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Günter Möller

Vechta, 15 May 2025
Place, date

Manager Documentation
Authorised agent for documentation

Signed by:

2DC0D6ADBABF493...

Christian Tobergte

Compliances FCC / ISED

1 FCC Compliance (USA)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

1.1 User Notice for Class B Digital Devices (per §15.105(b)):



NOTE! / REMARQUE!

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and — if not installed and used in accordance with the instructions — may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

1.2 Warning Statement (per §15.21):



WARNING! / AVERTISSEMENT

Changes or modifications made to this equipment not expressly approved by Big Dutchman may void the FCC authorization to operate this equipment.

1.3 Part 15 Label Statement and FCC ID (per §15.19):

The following text must be affixed on the device label regarding

FCC ID: 2BL6C-60-45-0602:

"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation."

2 ISED Compliance (Canada)

English:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference; and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Français:

L'appareil contient des émetteurs/récepteurs exempts de licence conformes aux CNR d'ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage; et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

3 RF Exposure and Separation Distance USA & Canada:

English:

To comply with FCC and ISED RF exposure requirements, maintain a minimum separation distance of 10 cm between the antenna of this device and all persons during normal operation.

Français:

Pour respecter les exigences de la FCC et de l'ISED en matière d'exposition aux radiofréquences, maintenez une distance minimale de 10 cm entre l'antenne de cet appareil et toute personne pendant son fonctionnement normal.

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1 About this manual

Observe the instructions in this manual to ensure correct and safe use of the system.

Keep this manual safe for future use.

All persons assembling, operating, cleaning and servicing this system must be familiar with the contents of this manual.

These persons must always have access to the manual. Keep this manual in the immediate vicinity of the system for this reason.

Observe the comprised safety instructions!

If this manual is damaged or lost, request a new copy from **Big Dutchman**.

This manual is protected by copyright. The information and drawings included in this manual may not be copied without the manufacturer's consent, nor may they be misused or disclosed to third parties.

The contents of this manual may be altered without prior notice.

If you find mistakes or unclear information in this manual, please do not hesitate to let us know.

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1.1 Structure of the safety instructions



DANGER!

This indicates risks that will lead to personal injury resulting in death or to serious injuries.



WARNING!

This indicates risks that could lead to personal injury resulting in death or to serious injuries.



CAUTION!

This indicates risks or insecure procedures that could lead to moderate or minor injuries.



NOTICE!

This indicates notes preventing property damage and leading to an effective, economic and environmentally-conscious handling of the system.



2 Safety

2.1 General safety regulations

Only work with suitable tools and observe the local accident prevention regulations.



CAUTION!

Keep a minimum distance of 10 cm between the device's antenna and humans during normal operation to meet the requirements regarding exposure to electromagnetic fields.



WARNING!

Touching live parts when charging the battery can lead to injuries caused by electric shock and short circuits.

- ▶ Never touch bare electrical components.
- ▶ Always observe the safety instructions of the battery manufacturer.
- ▶ Always use the battery as intended.



NOTICE!

The battery is not included in **Big Dutchman's** scope of delivery. Always observe the safety instructions of the battery manufacturer!

Additionally, the following general notes regarding the handling of the battery as external energy source apply.



**WARNING!**

Consider the following notes when using the battery:

- ▶ Impacts and penetrations can damage the battery. This can lead to leaks, heat generation, smoke, fire or explosion.
- ▶ Paper clips, coins, keys, nails, screws or other metal objects can short-circuit the terminals. This can cause burns or fires.
- ▶ Flames or temperatures above 130 °C can lead to fires, explosions or injuries. Do not burn batteries, except in approved waste incineration plants.
- ▶ Dismantling or modifying the battery can damage the protection circuit. This can lead to heat generation, smoke, fire or explosion.
- ▶ Contact with liquids can damage the battery. This can lead to heat generation, smoke, fire or explosion.
- ▶ Chargers that are not suitable for charging the battery can be damaged. This can result in a fire.
- ▶ Damaged or modified batteries may pose unforeseeable risks. This can lead to fires, explosions and injuries.
- ▶ Immediately stop using batteries if you notice anything unusual such as odour, heat, discolouration or deformation. Otherwise the battery may be damaged. This can lead to heat generation, smoke, fire or explosion.
- ▶ Always carefully observe the warnings on batteries and in instructions. Only use recommended battery types.
- ▶ Lithium batteries should preferably be stored at ambient temperature (max. 50 °C) and in dry places. Avoid large temperature fluctuations. (For example, do not store lithium batteries near radiant heaters and do not expose them to sunlight for long periods of time.) Contact local authorities and insurers if you store large quantities of lithium batteries.
- ▶ Exceeding a storage temperature of 60 °C can lead to accelerated ageing and premature loss of function.



 WARNING!

The battery is usually sealed dust-tight so that there is no further risk to health or the environment. If the battery is destroyed during operation or cleaning, always observe the following instructions:

- ▶ Avoid skin or eye contact with released substances. If necessary, rinse the eyes thoroughly with water and consult a physician.
- ▶ Consult a physician immediately in the event of chemical burns.
- ▶ If smoke or gas is released, leave the room immediately and ensure adequate ventilation. If toxic vapours are inhaled, consult a physician immediately.
- ▶ If swallowed, rinse mouth and surrounding area with clean water and consult a physician.

 WARNING!

If the battery is the primary or secondary source of a fire, observe the following instructions:

- ▶ Lithium battery fires can generally be extinguished with water. No additional or special extinguishing agents are required.
- ▶ The choice of extinguishing agent depends on the overall situation and any other burning substances.
- ▶ During a fire, gases may be produced that can cause respiratory injuries. Make sure you wear adequate respiratory protection.

 CAUTION!

SLIPPERY WHEN WET!

Water in combination with dust and feed remains can lead to a slippery floor.

2.2 Operator's responsibility

The operator is subject to the legal obligations regarding occupational safety and is responsible for the staff's safety. All safety, accident prevention and environmental protection regulations applicable for the area of use of the system must be observed. The following is especially important:

The operator must clearly specify responsibilities for operation, maintenance and cleaning.

The operator must provide the staff with the necessary personal protective equipment.

The operator is responsible for

- using the system in compliance with the designated use;
- ensuring that the system is only operated in an excellent state from the technical point of view and that maintenance intervals are observed;
- ensuring that his staff is trained to use the system;
- ensuring that operation instructions are prepared for the system.

2.3 Designated use

The EasyCheck are used exclusively for weighing birds and then transmitting the weighing data to higher-level evaluation software.

The **Big Dutchman** system may only be used for the purpose for which it is designated.

Any deviating use is considered non-designated use. The manufacturer shall not be liable for any damage resulting from such non-designated use. The user alone bears the risk. The designated use also includes the exact compliance with operating, maintenance and assembly requirements of the manufacturer.

2.4 Possible misuse

- Using the device to store objects
- Mechanically loading the system with loads exceeding the loads normal for the keeping of birds listed in chapter 2.3 (see also chapter 4.1).
- Supporting or standing on components that are not intended for this purpose.
- Using unsuitable tools that lead to damage or destruction of system components.
- Misusing the battery beyond the use described here.

- Replacing components or spare parts by parts that have not been approved for this purpose by **Big Dutchman**.
- The use outdoor.
- Using the system at temperatures below 0 °C.
- Using improper detergents and disinfectants.
- Too long residence time of detergents and disinfectants.
- Utilising the system with aggressive and/or corrosive materials in quantities that do not constitute good professional practise.

A non-designated use will lead to a liability exclusion by **Big Dutchman**.

The operator of the system exclusively bears the risk resulting from misuse!

3 Transport and storage

3.1 Transport

NOTICE!

Danger of damage to the scale due to shocks or impacts.

Hard shocks or impacts can damage the weighing system or electronic components.

- ▶ Use a suitable means of transportation to move the scale.
 - ▶ Set the scale down carefully.
-

NOTICE!

The commercial transport of lithium-ion batteries is subject to dangerous goods regulations.

Transport preparations and transports must only be carried out by appropriately trained personnel or the process must be accompanied by specialists with the relevant knowledge or by qualified companies.

- ▶ For further details, refer to the battery manufacturer's operation manual.
-

3.2 Storage

Store all electric parts in a dry and closed space.

4 System description

4.1 Technical data

Mechanical data

Outer dimensions	401 x 484 x 725 mm
Weighing platform dimensions	401 x 400 x 33 mm
Weight range	0 g – 50,000 g
Net weight	approx. 8.5 kg (without battery)
Steel grade	AISI 304; 1.4301

NOTICE!

The specified weight range describes the load limit of the system. Weights in excess of this range will destroy the sensors.

Electrotechnical data

Maximum HF output level	20 dBm (100 mW) (+/- 0.5 dB)
Supported data rate	SF8 = 3.125 bit/s
Transmission power	max. 20 dBm (+/- 0.5 dB)
Protection rating	

Region-specific data

Region	Bandwidth	Frequency
RED	125 kHz	869.524963 MHz
FCC	500 kHz	921.228088 MHz

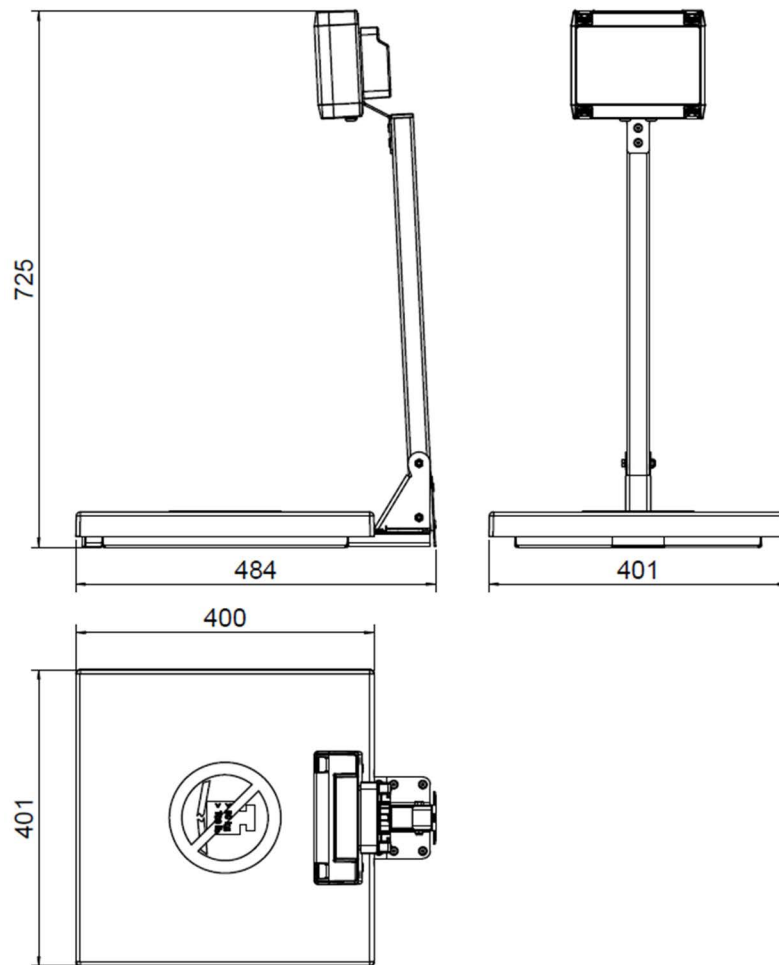
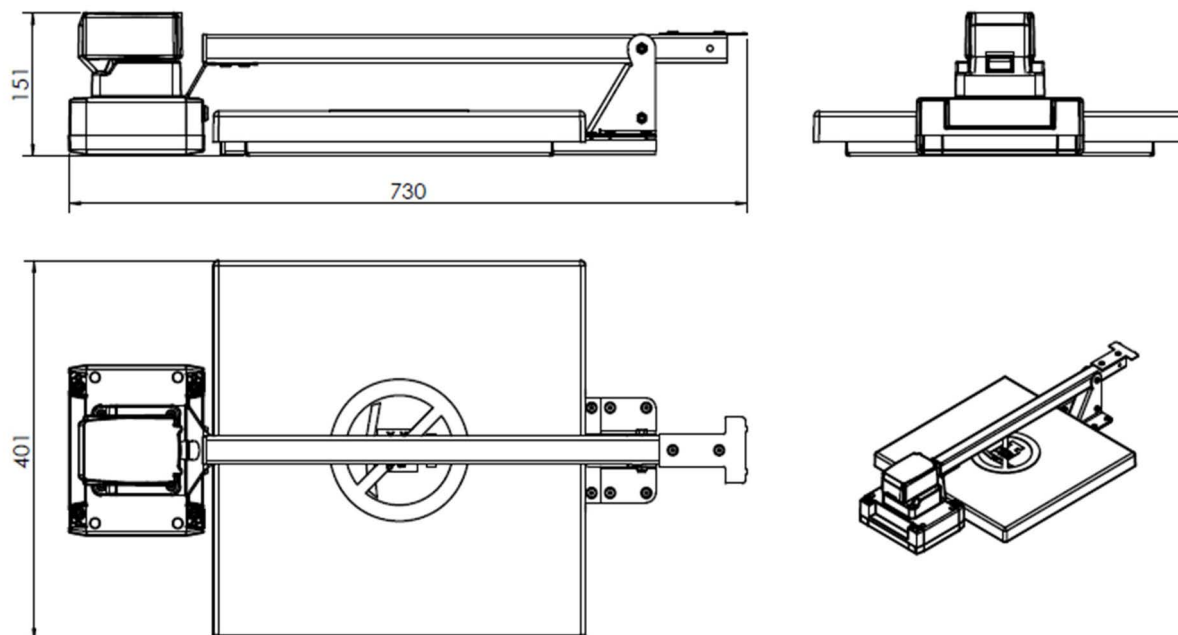


Figure 4-1: Dimensions EasyCheck



State upon delivery:**Battery system:**** NOTICE!**

The 18 V battery is not included in the scope of delivery.



Battery system	Makita-LXT
Battery voltage	18 V
Battery capacity	1.5 to 6.0 Ah (depending on version)
Battery type	Li-ion
Battery weight	0.35 to 0.66 kg (depending on version)

4.2 Structure and function

The EasyCheck bird scale consists of a platform and a control box with LEDs. The platform cover is made from robust plastic and is attached to the weighing platform with magnets.

The scale is active and ready for use as soon as the 18 V battery is inserted.

NOTICE!

The 18V battery is not included in the scope of delivery and must be procured, charged, maintained and replaced by the operator (see chapter 4.1).

The connection to the IoT gateway **OrbitX** is established automatically after initial operation (see chapter 7).

5 Functioning and information

5.1 Functioning

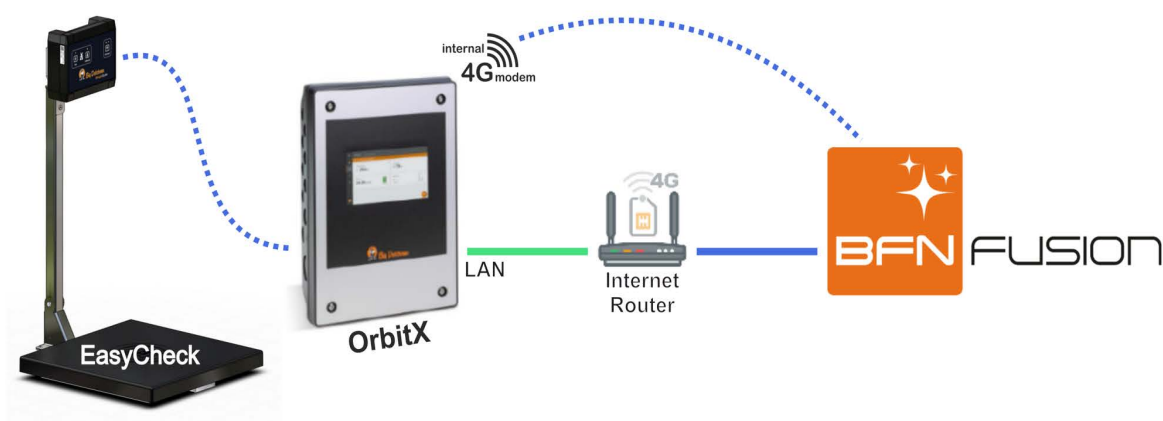
The scale is delivered fully configured and calibrated.

NOTICE!

Subsequent calibration or taring during operation is not necessary.

EasyCheck should be placed in the house in the area accessible to the birds. To do this, position the scale as horizontally as possible. The litter can also be used for this purpose. Careful shaking of the scale ensures an even level.

Depending on the weight and life cycle of the birds, the scale automatically recognises when birds are on the platform and weighs them. Any positive weighing data is forwarded to BFN Fusion via the OrbitX IoT gateway. The data can be analysed with BFN Fusion using appropriate evaluations. Communication with OrbitX is wireless.



NOTICE!

Depending on the local conditions, EasyCheck and the OrbitX gateway may be placed a maximum of 350 metres apart. The exact location must be checked before commissioning.

The weight curve of the birds to be weighed can be preset via BFN Fusion.

5.2 Information

The operator of the scale may only use an 18 V battery that complies with the "Makita" standard.



NOTICE!

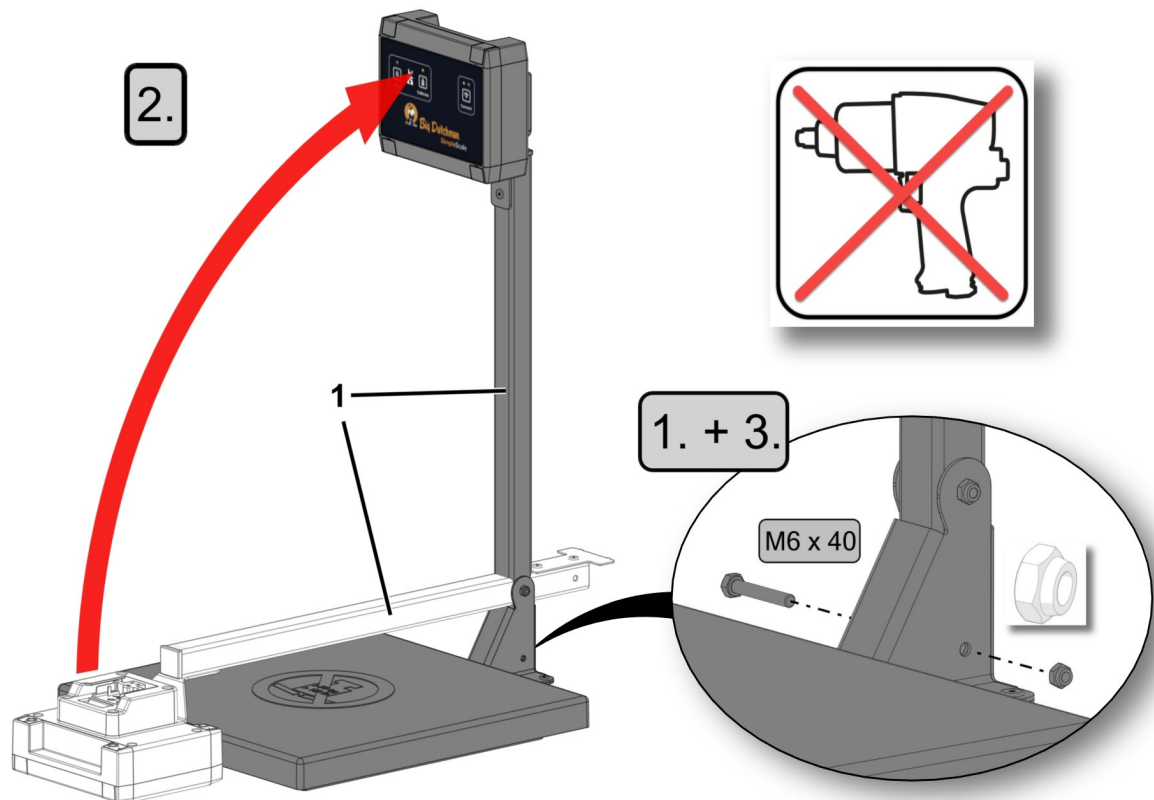
Functioning is not guaranteed with other battery systems.

- BFN Fusion automatically recognises a low battery level of EasyCheck and issues a message to the operator.
- Depending on the size of the battery, the charging interval can be up to 7 days. An interim check is recommended.



6 Assembly

Remove all packaging material and any transport locks before assembly.

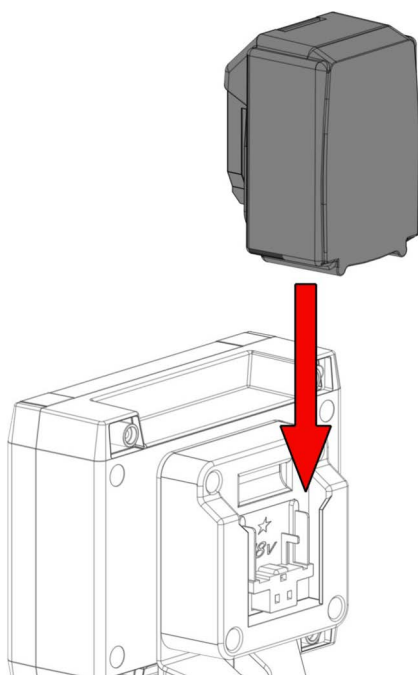


1. Loosen the lower self-locking counter nut from the hexagon head screw M 6 x 40 and remove the screw.
2. Fold the scale's stand (1) upwards by approx. 90° until it stops in the foot area.
3. Reinsert the hexagon head screw M 6 x 40 and screw the scale's stand together with both self-locking counter nuts.

NOTICE!

Do not use an impact wrench for screwing!

Inserting the battery:



NOTICE!

Before inserting the battery, make sure that the battery holder is clean and dry.

Insert the charged battery from above into the holder at the back of the scale's electronics housing until you hear it click into place.

The battery has a release button that you can use to remove the battery.

For more details on using the battery, refer to the battery manufacturer's operation manual.

NOTICE!

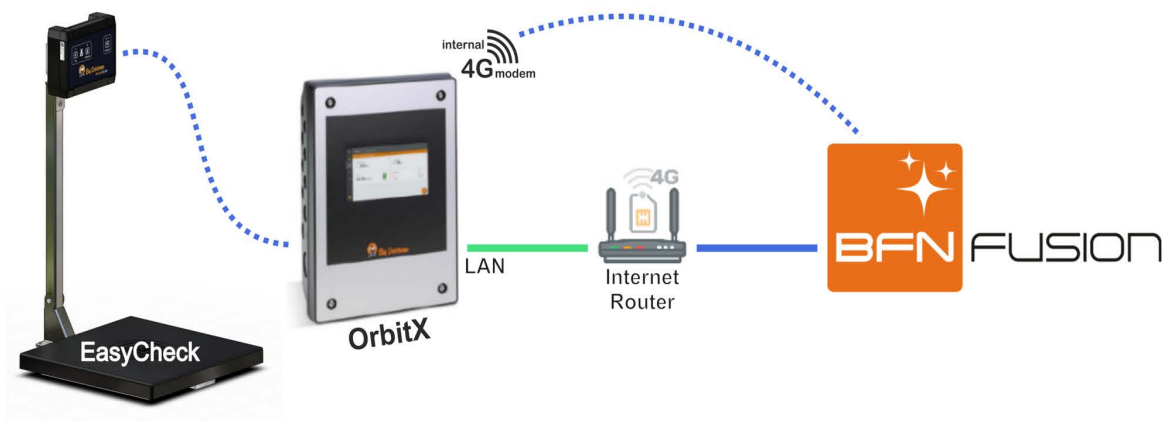
The 18 V battery is not included in the scope of delivery. For details, refer to chapter 4.1.

7 Initial operation

The EasyCheck bird scale only works together with the **Orbit X** IoT gateway, to which a connection is automatically established after initial operation.

The data is then transferred to the innovative BFN Fusion software platform from **Big Dutchman**.

Everything you need to know about commissioning can be found in this chapter.



7.1 Getting started

Observe the following instructions for commissioning EasyCheck:

1. Assemble the scale according to the instructions (see chapter 6).
2. Insert the fully charged battery into the scale.
3. Place the scale horizontally in a suitable place at bird level. You can also use the litter for this purpose.

7.2 Initial operation with OrbitX



NOTICE!

The EasyCheck bird scale only works with an OrbitX gateway with firmware version 2.11.1 or higher!

If you have purchased EasyCheck and OrbitX together from **Big Dutchman**, the OrbitX software will always have at least this version.

If you already own an OrbitX gateway and are purchasing the scale, check the software version on your device beforehand.

The following is a brief summary of the procedure for commissioning with OrbitX. More information can be found in your OrbitX documentation.

1. Mount the OrbitX gateway on a suitable building wall (be sure to read the information supplied with OrbitX).
2. Have the OrbitX gateway professionally wired by a qualified electrician.



DANGER!

Only qualified electricians may install and work on electric parts / assembly groups in accordance with electro-technical regulations (e.g. EN 60204, DIN VDE 0100/0113/0160).

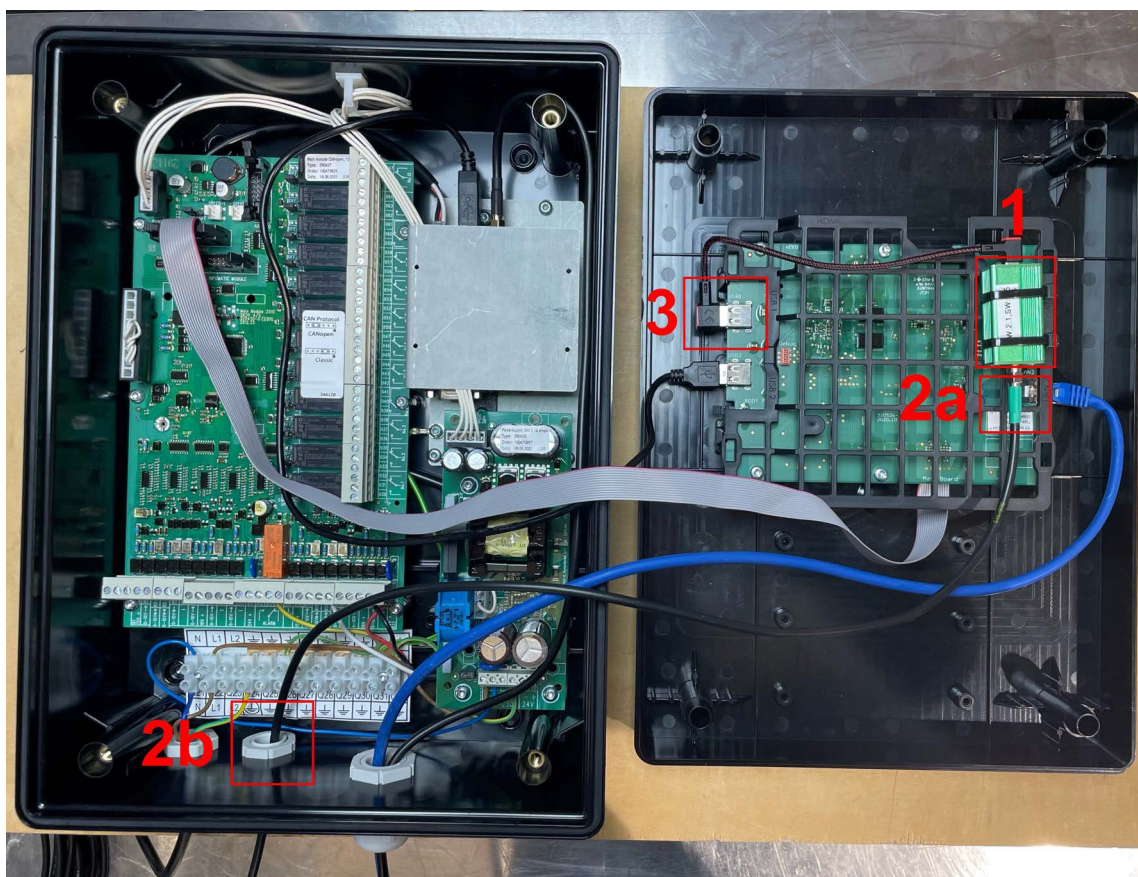


3. Install the LoRa stick.

For the sensor to provide correct data in BFN Fusion, a LoRa stick must be installed in the OrbitX case.

The following are the instructions on how to install the LoRa stick:

1. Use two cable ties to attach the stick to the motherboard's plastic protective grille.
2. Screw the green antenna cable (2a) to the stick. Next, run the cable out of the case (2b).
3. Finally, connect the stick to the motherboard using a USB cable (3).



The LoRa antenna must be mounted on the outside wall of the building, just like the cellular antenna of the modem. The distance between the LoRa antenna and the cellular antenna of the modem must be at least **3m**! The position of the LoRa antenna should be as high as possible and selected so that there are as few obstacles (buildings, trees, hills, etc.) as possible between the antenna and the sensor.

When OrbitX is electrically connected and the fuse is switched on, OrbitX starts automatically.

The following start screen is displayed:

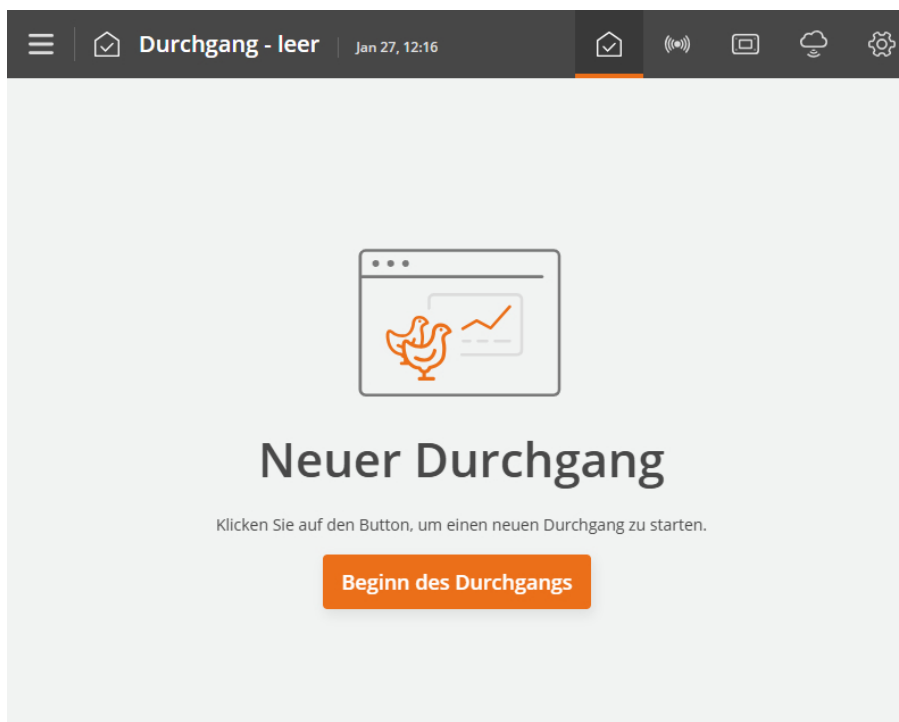


Figure 7-1: Start screen

The menu button takes you to the installation level:

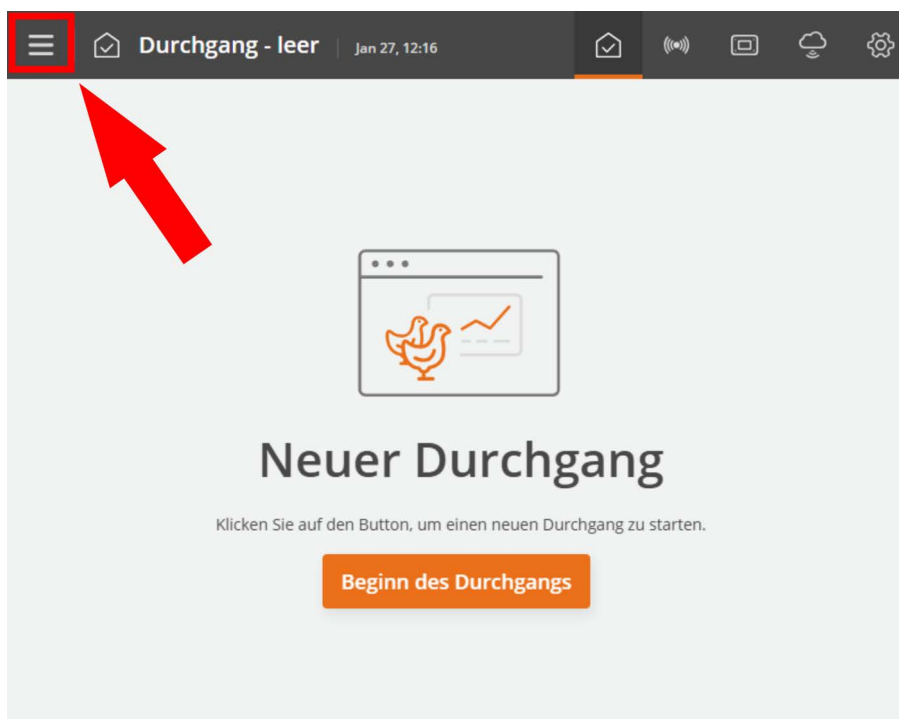


Figure 7-2: Menu button

Clicking on the "More" button takes you to the language selection:

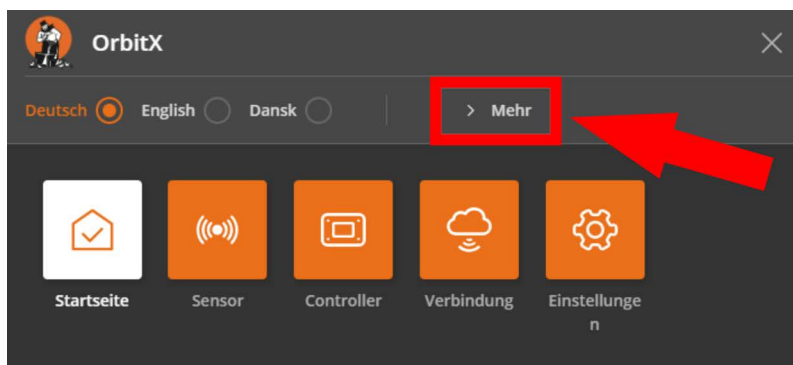


Figure 7-3: To the language selection

Select your language and confirm your selection with "Confirm":

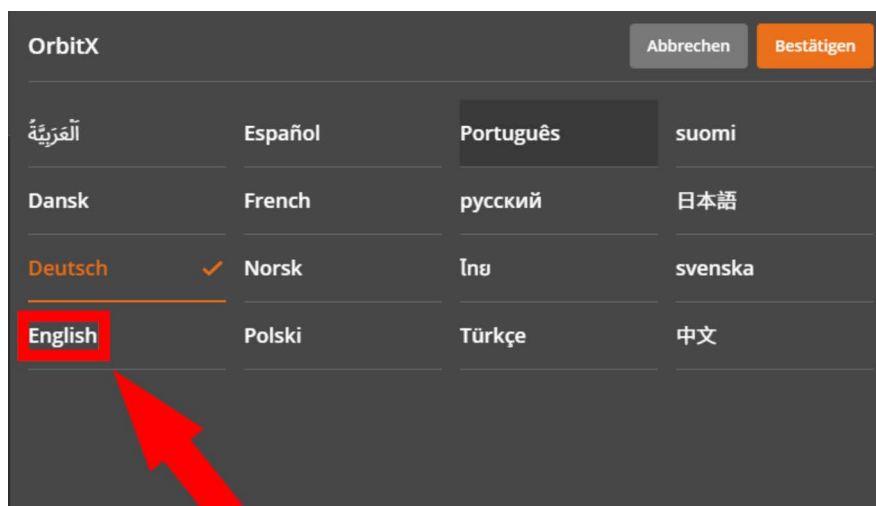


Figure 7-4: Language selection

You will be returned to the start screen in the selected language. Select the settings here:

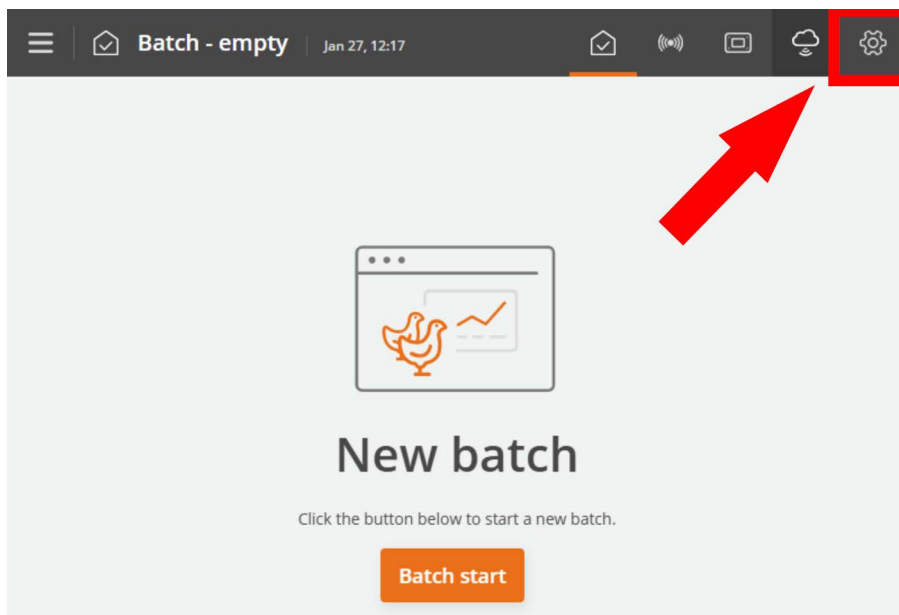


Figure 7-5: To the settings

Select EasyCheck in the settings window:

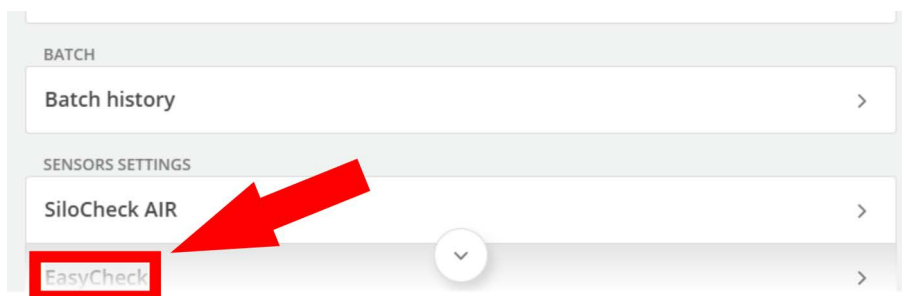


Figure 7-6: Selecting a sensor

Register EasyCheck as a new sensor:

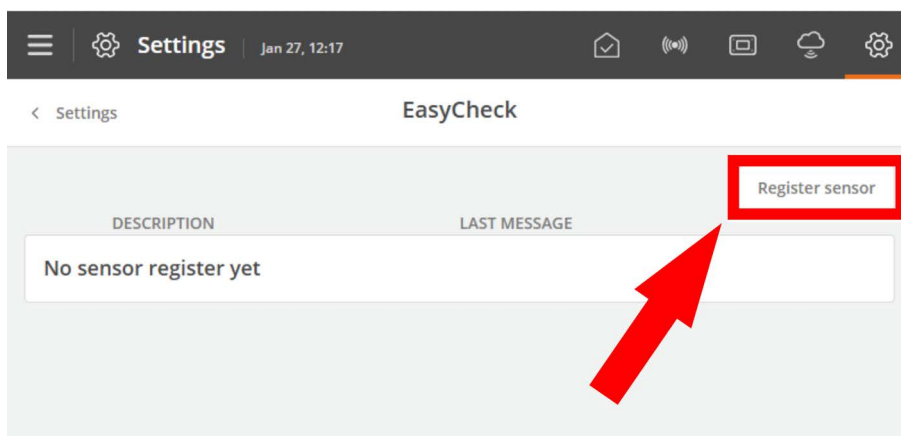


Figure 7-7: Registering a sensor

Select a sensor ID:

If several EasyCheck bird scales are installed within reach on the farm, the correct sensor must be selected during initial installation.

Figure 7-8: Clicking on the sensor ID



Figure 7-9: Selecting the sensor ID

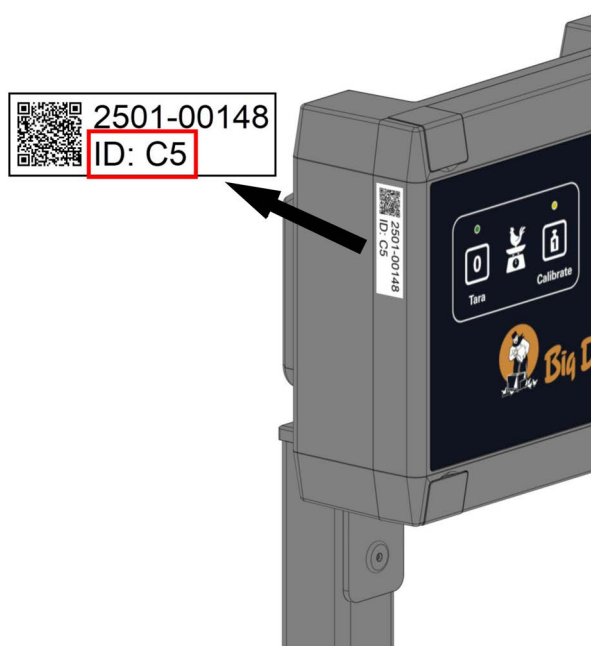
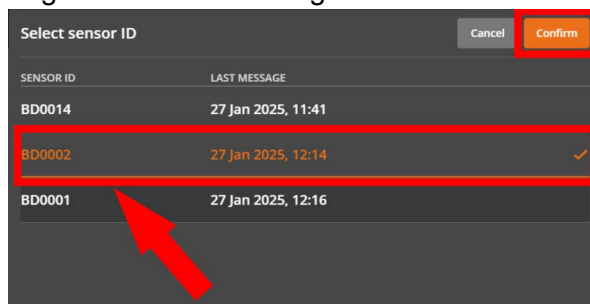


Figure 7-10: Sensor ID position on EasyCheck

The correct sensor ID can be found on a sticker on the left-hand side of the control unit housing.

Confirm the selection!

Select a description:

Assign a name for EasyCheck here.

Figure 7-11: Clicking on the description

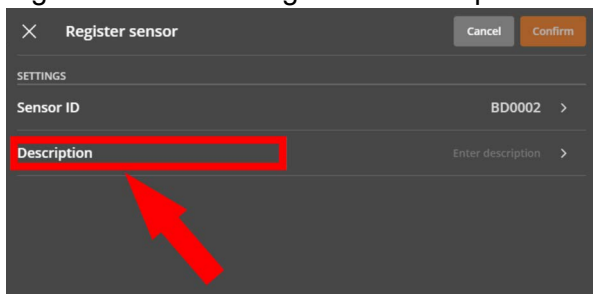
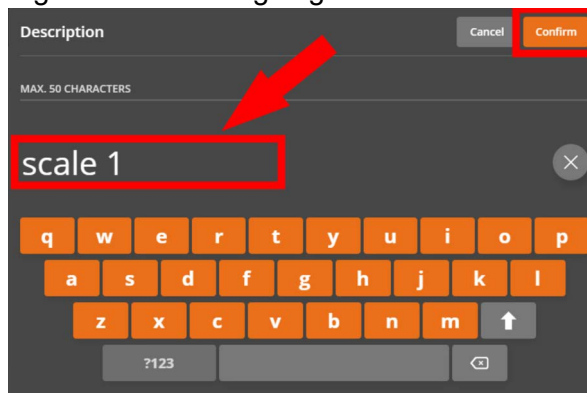


Figure 7-12: Assigning a name



In our example, we assigned the name "scale 1". Use the membrane keypad of OrbitX. Confirm the selection!

Confirm the inputs:

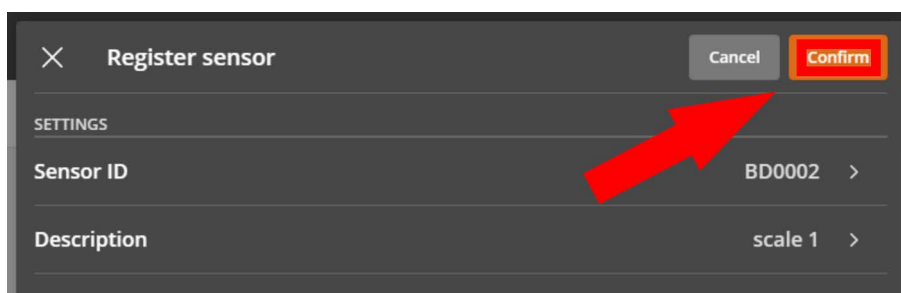


Figure 7-13: Confirming inputs

The sensor is now registered in the system:

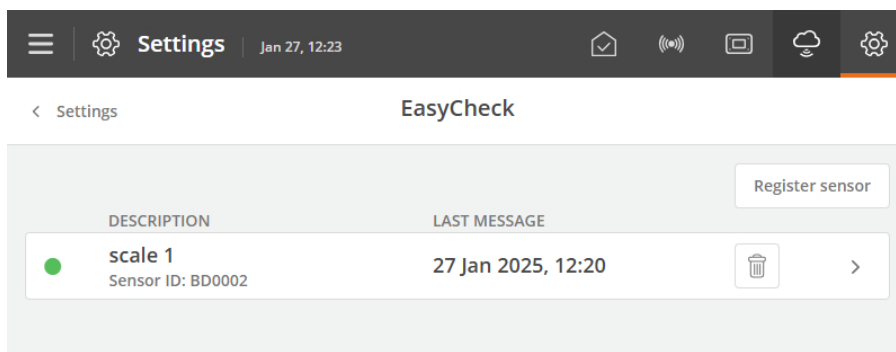


Figure 7-14: EasyCheck is registered.

7.3 Note on BFN Fusion

The data provided by EasyCheck is forwarded to BFN Fusion via **OrbitX**. The data can be analysed with BFN Fusion with the appropriate settings.

To set up and use BFN Fusion, refer to the corresponding user manual.

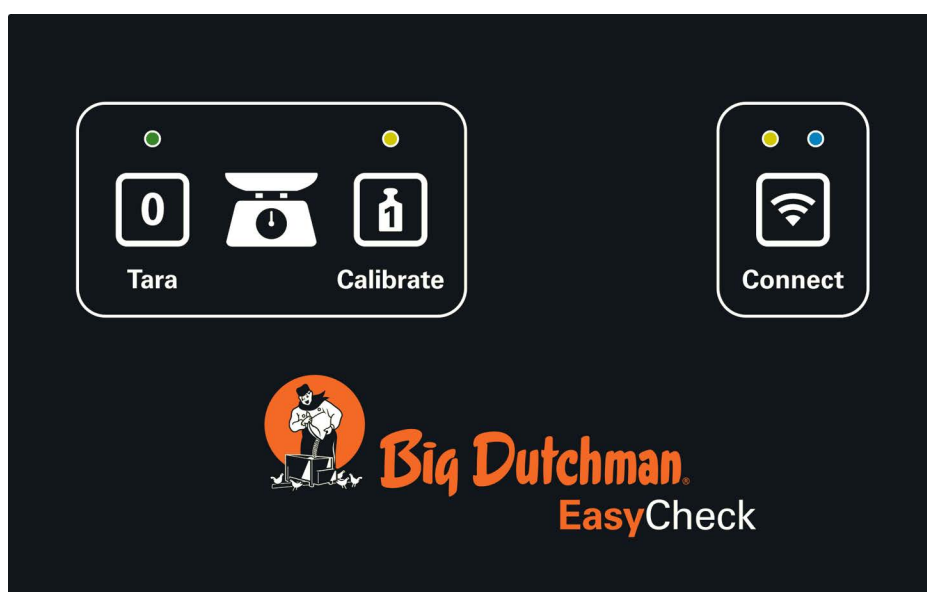
7.4 EasyCheck button functions

General

The EasyCheck bird scale has an English-language user interface with three buttons. The scale is preconfigured at the factory and does not normally require any further modification.

NOTICE!

Only use the following functions in exceptional cases.



Tara

The "Tara" button can be used to tare the scale, i.e. set to "0". Taring is not necessary for normal operation.

NOTICE!

As a rule, taring is only useful in combination with calibration, as the exact zero point must be determined.

Taring procedure:

1. Place the scale on a firm surface.
2. Make sure that the scale is clean. Clean the platform if necessary. Make sure that the weigh bar below the platform is not affected by foreign objects. Lift the platform off the scale for inspection and cleaning. After cleaning, place the platform back on the scale.
3. Press and hold the tare button for 3 seconds. The LED above the tare button lights up green. The LED flashes after three seconds.
4. Release the tare button as soon as the LED flashes.
5. The LED continues to flash for a further 10 seconds. During this time, the scale determines the new tare weight.

**NOTICE!**

It is **extremely important** that the platform is not loaded with additional weight or lifted – and thus unloaded – during this taring phase. This would falsify the taring weight.

6. The taring process is complete when the green LED extinguishes.

Calibrate

The EasyCheck bird scale is calibrated ex works. Recalibration is not necessary.

However, if it becomes apparent over time that the determined scale value deviates from the real weight, calibration may be necessary.

**NOTICE!**

EasyCheck has a preset calibration weight. This is set in the software and cannot not be changed.

Calibration must always be carried out with a fixed weight of 1,000 grams.

The scale must always be tared before calibration (see above). This step is absolutely necessary before each calibration.



1. Carry out the taring process (see above under "Tara").
2. Place the calibration weight of 1,000 grams in the centre of the platform.
3. Press and hold the "Calibrate" button for five seconds. The LED above the calibration button lights up orange. The LED flashes after five seconds.
4. Release the calibration button as soon as the LED flashes.
5. The LED continues to flash for a further 10 seconds. The scale is recalibrated during this time.

**NOTICE!**

It is **extremely important** that the platform is not loaded with additional weight or lifted – and thus unloaded – during this calibration phase. The calibration would then not be completed successfully.

6. The calibration process is complete when the orange LED extinguishes. The calibration weight can now be removed from the platform.

Connect

EasyCheck sends the determined weighing values regularly, every 20 minutes, to the installed IoT gateway. When data transmission starts, the left-hand LED above the "Connect" button lights up yellow briefly.

If the data transfer was successful, the right-hand LED above the "Connect" button lights up blue briefly.

By pressing the "Connect" button, the measured values are immediately sent to the IoT gateway, even if the 20-minute transmission interval has not yet expired. This function can be used to check the connection between the scale and the IoT gateway.

When pressing the button, the left-hand LED lights up briefly yellow; after a successful connection, the right-hand LED lights up blue.



8 Maintenance and cleaning

Maintenance

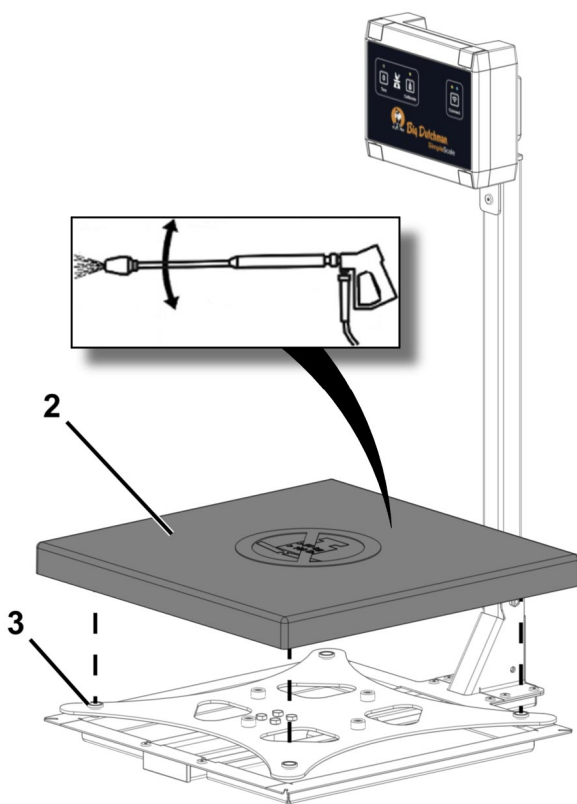
The EasyCheck bird scale is maintenance-free.

When changing the battery, simply ensure that the battery is correctly positioned in the scale and that the battery and battery holder are in perfect condition.

Cleaning

NOTICE!

Always clean the scale between flocks.



1. Remove the battery from the holder before cleaning.

2. The plastic cover (2) of the platform is suitable for high-pressure washers. Remove the cover from the housing with some force and clean the cover separately from the scale. After cleaning, put the plastic cover back on the scale.

3. If necessary, remove dust from the scale using compressed air or a lint-free, clean cloth.

NOTICE!

The scale's body (3) and the weighing electronics must **not** be cleaned with high-pressure washers.

- ▶ The scale must therefore be stored outside the house during the cleaning period.
- ▶ Never use liquids of any kind for cleaning!

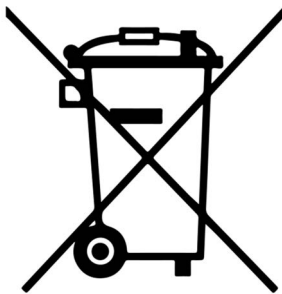
9 Waste disposal

The operator is responsible for disposing of the system at the end of its service life. Observe the applicable statutory provisions when disposing of the system.

NOTICE!

Incorrect disposal can lead to environmental damage.

- ▶ The system and individual parts must be disposed of properly!
- ▶ If necessary, commission a specialised company with the disposal.



NOTICE!

In the EU, used batteries must not be disposed of with household waste and must not be mixed with batteries from other systems to avoid risks to people and the environment and to avoid making recycling more difficult.

Used batteries must be returned (free of charge) to the point of sale or to a collection system (industry, distribution). In accordance with the EU Battery Regulation, lithium batteries are labelled with the "separate collection" symbol.