Each hand transmitter button is assigned to a radio code.

▶ Also note section 8.

On the display, **11** flashes.

To teach in a radio code (impulse):

5. Press and hold the hand transmitter button from which you want to transmit the radio code.
    Hand transmitter:
    – The LED is illuminated blue for 2 seconds and then goes out.
    – After 5 seconds, the LED alternates flashing in red and blue. The radio code is transmitted.
    Operator:
    If the receiver detects a valid radio code, **11.** flashes quickly on the display.
6. Release the hand transmitter button.
    The hand transmitter has been taught in and is ready for operation.
    On the display, **11** flashes normally.
    Further hand transmitters can be taught in within 25 seconds.

To teach in further radio codes (impulse):
▶ Repeat steps **5 + 6**.

To cancel radio code teach-in:
▶ Press the PRG button.

To teach in further functions on the hand transmitter:
▶ Press the ︿ button and select

Menu **12**	Lighting
Menu **13**	Partial opening
Menu **14**	Choosing OPEN direction
Menu **15**	Choosing CLOSE direction
Menu **16**	homee Brain

7. Press the PRG button and switch to programming mode.
    Correspondingly, **12, 13, 14, 15** or **16** flashes.
8. Perform steps **5 + 6** as for the impulse radio code.

To teach in no further hand transmitters:
1. Press the ︿ / ﹀ buttons to select the menu **00**.
2. Press the PRG button.
    The operator switches to operation mode.
      Or
▶ No input for 25 seconds (timeout).

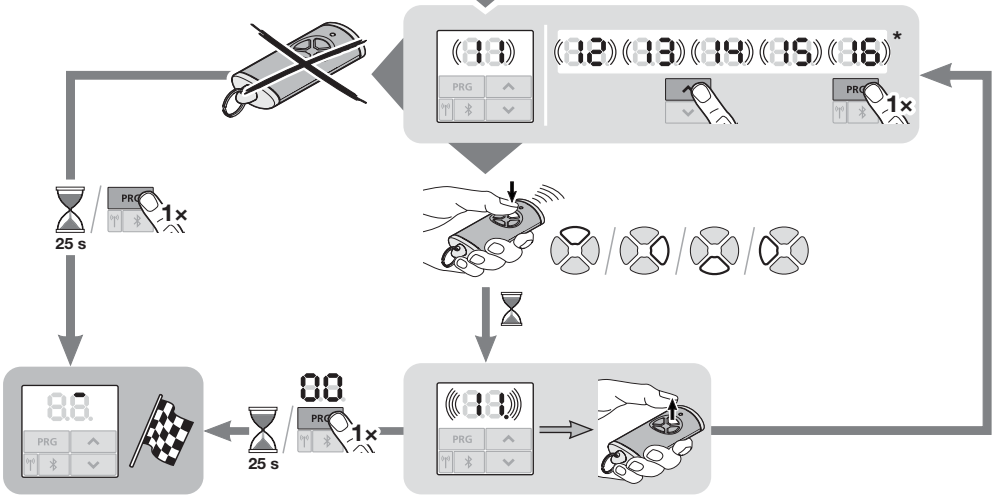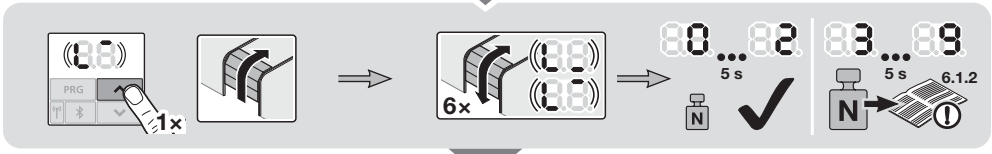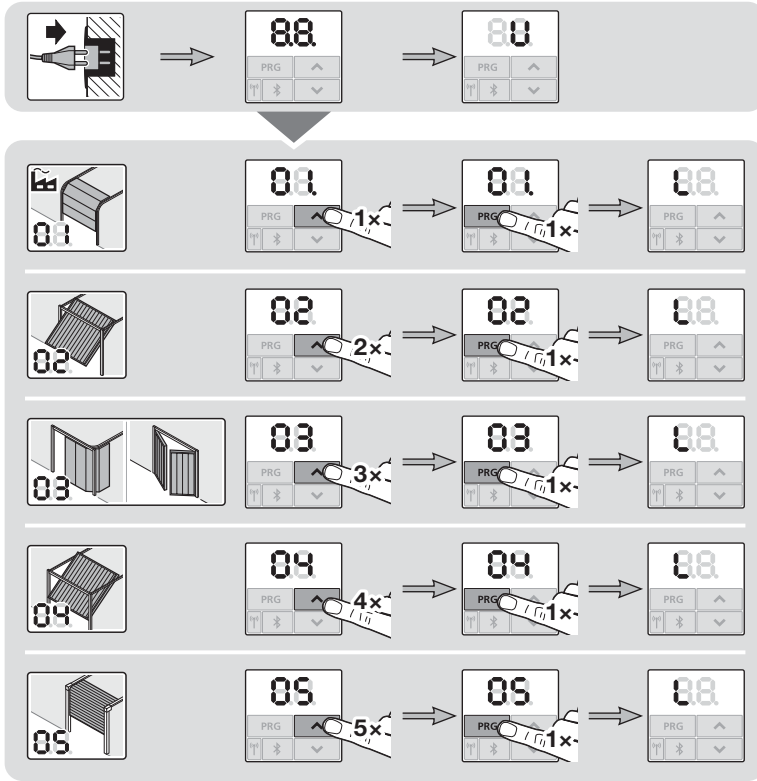The taught-in safety devices are active and activated in the menus.

The operator is ready for operation.

Timeout

If the timeout (25 seconds) is exceeded while teaching in the hand transmitter, the operator automatically switches to programming mode. To register a hand transmitter, the corresponding menu must be selected manually.

▶ Section 6.1.4

23

* Teach-in hand transmitter according to section 6.1.4, page 36

6   Menus

NOTES

- Menu **00** is the 1st visible menu in programming mode
- Menu **00** is also used to exit the programming mode.
- Menus **01 – 09** are only accessible during initial start-up.
- After initial start-up, only the available menus **10 – 38** are visible.
- A decimal point next to the menu number indicates an active menu.

To switch to programming mode:

▶ Press the PRG button for 5 seconds until the **00** display is illuminated.

To select a menu:

▶ Press the ∧ / ∨ buttons to select the desired menu. Press and hold the ∧ / ∨ buttons for fast run-through.

To activate the menu with individual functions:

▶ Press the PRG button 1×. The menu is active immediately. The decimal point next to the menu number is illuminated.

To activate a menu with selectable parameters:

1. Press the PRG button 1 ×. The active parameter flashes.
2. Select the desired parameters with the ∧ / ∨ buttons.
3. Press the PRG button 1 ×. The parameter is immediately active. The menu number illuminates.

To exit programming mode:

1. Press the ∧ / ∨ buttons to select the menu **00**.
2. Press the PRG button.

   Or

▶ No input for 60 seconds (timeout). All inputs are saved. The operator switches to operation mode.
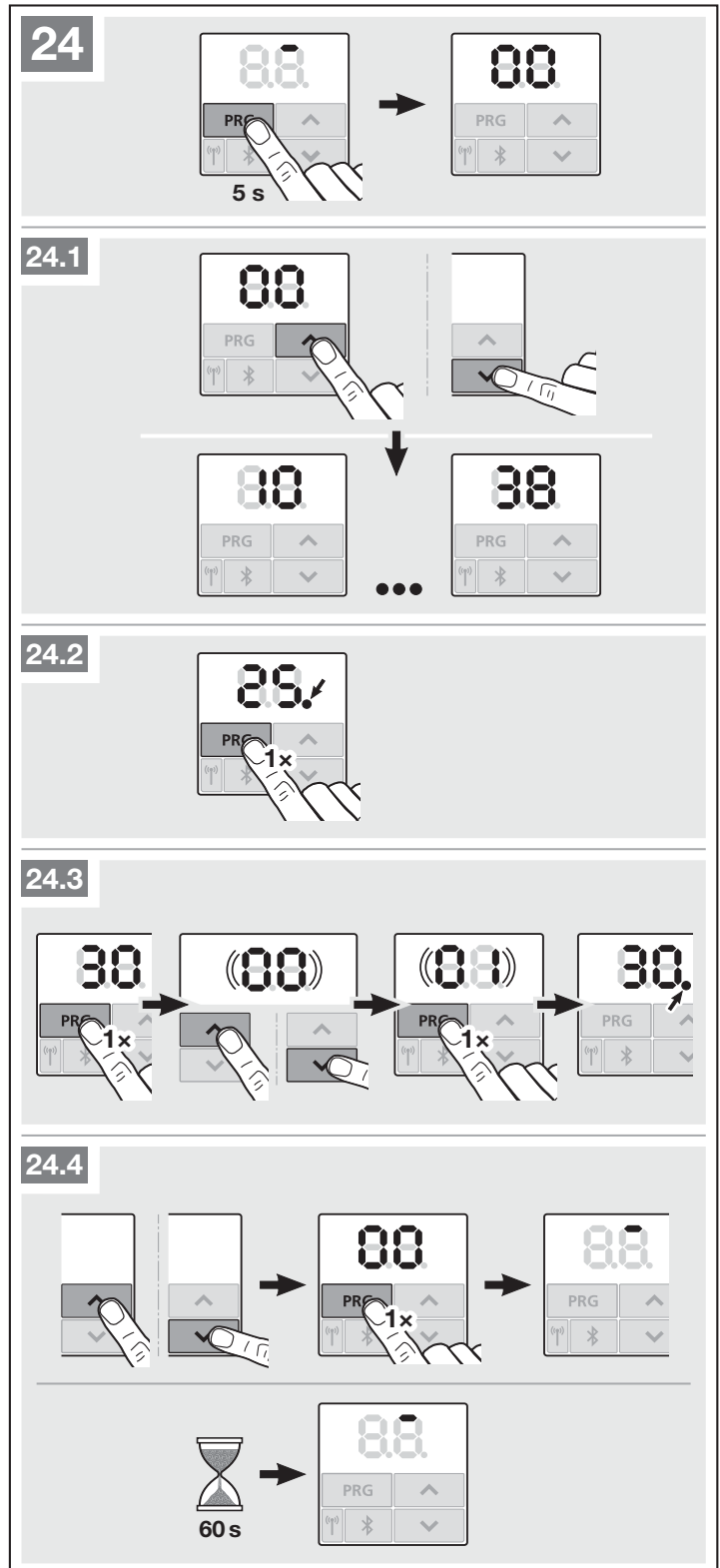
6.1 Menu description

A table containing all of the menus can be found in section 19 from page 57.

6.1.1 Advanced menus

In addition to menus **01 – 37** described here and the respective parameters, additional settings can be made, such as

- Speed adjustment
- Power limit adjustment
- Belt adjustment
- Change to the reversal limit
- Effective direction and reversing behaviour of the safety devices
- Changing the ventilation position without safety equipment

Contact your specialist dealer with regard to these settings.

NOTICE

Settings that change the factory setting may only be made by specialists.

6.1.2 Menu 01 – 06: Door types

You only need menus **01 – 06** to commission the operator. These menus are only available during initial start-up or after a factory reset.

If you select the door type, all door-specific values are automatically set by default, such as:

- Speeds,
- Soft stop,
- Reversing behaviour of the safety devices,
- Reversal limits,
- Etc.

An overview of the door types can be found in section 5.1.

6.1.3 Menu 10: Learning runs

▶ Please note the information from section 5.

Learning runs are necessary:

- After service or maintenance work,
- If changes have been made to the door.

Learning runs in delivery state:

During initial start-up (section 5), all learning runs are performed automatically.

GARADOR

To start learning runs:

1. Press the PRG button until the **00** display is illuminated.
2. Press the ∧ / ∨ buttons to select the menu **10**.
3. Press the PRG button for 5 seconds.
   – **L** is illuminated,
4. Press the button ∧.
   – The door will open and briefly stop in the OPEN end-of-travel position. **L‾** flashes.
   – The door automatically completes 3 cycles (OPEN and CLOSE door runs). **L _** flashes in the CLOSE direction. **L‾** flashes in the OPEN direction.
   The travel and required forces are taught in.
   The operator light flashes during the learning runs.
   – The door will stop in the OPEN end-of-travel position. The operator light remains illuminated and goes out after approx. 60 seconds.

Display of taught-in forces

After the learning runs, a number is illuminated, which shows the maximum determined force.

This value indicates the following:

0-2 Optimal force ratios.
        The door system runs easily.
3-9 Poor force ratios.
        The door system must be checked and adjusted as necessary.
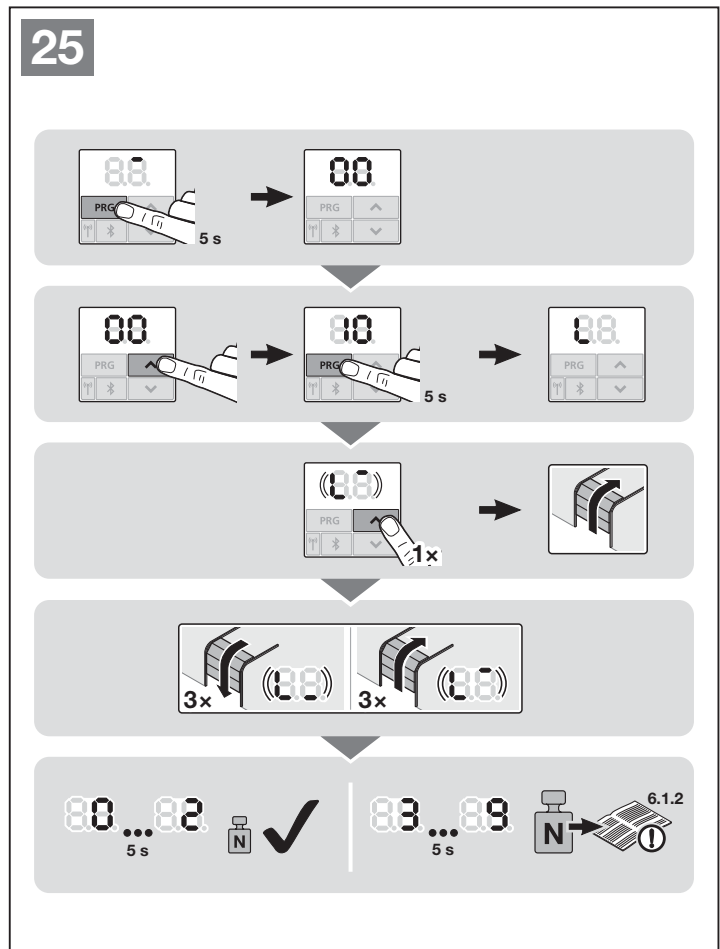
6.1.4 Menu 11 – 15: Teach-in hand transmitters

The integral radio receiver can learn up to 150 radio codes.

The radio codes can be distributed across the existing channels.

If more than 150 radio codes are taught in, the codes taught in first are deleted.

If the radio code for a hand transmitter button is taught in for two different functions, the radio code for the function first taught in is deleted.

To teach in a radio code, the following prerequisites must be met:

- The operator is at rest.
- Pre-warning phase is not active.
- Hold-open phase is not active.

Menu 11: Teach in radio code for impulse control:

1. Select menu **11** as described in section 6.
2. Press the PRG button.
   On the display, **11** flashes normally.
3. Carry out steps **5 + 6** as described in section 5.1.

To cancel hand transmitter teach-in:

▶ Press the PRG button.

Timeout

If the timeout (25 seconds) is exceeded while teaching in the hand transmitter, the operator automatically switches to programming mode.

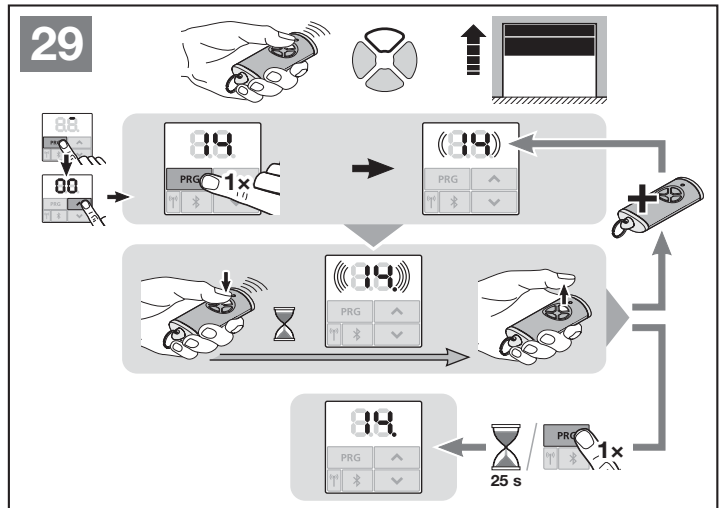**Menu 12: Teach in radio code for light:**

▶ Proceed as with menu **11**.

Menu 13: Teach in radio code for partial opening:

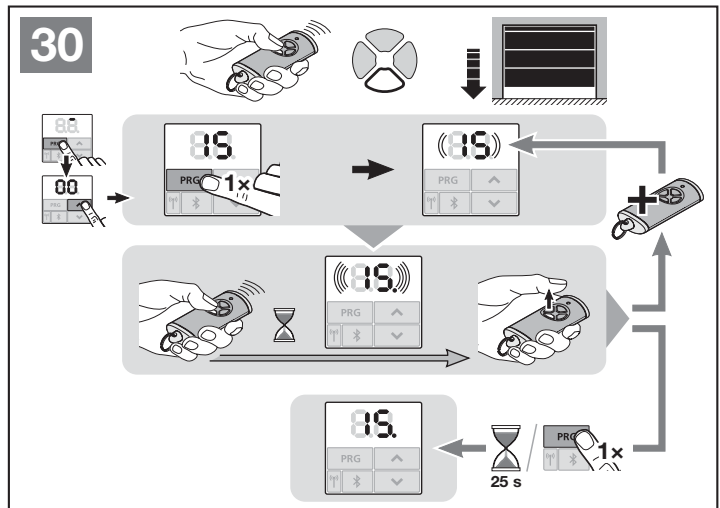▶ Proceed as with menu **11**.
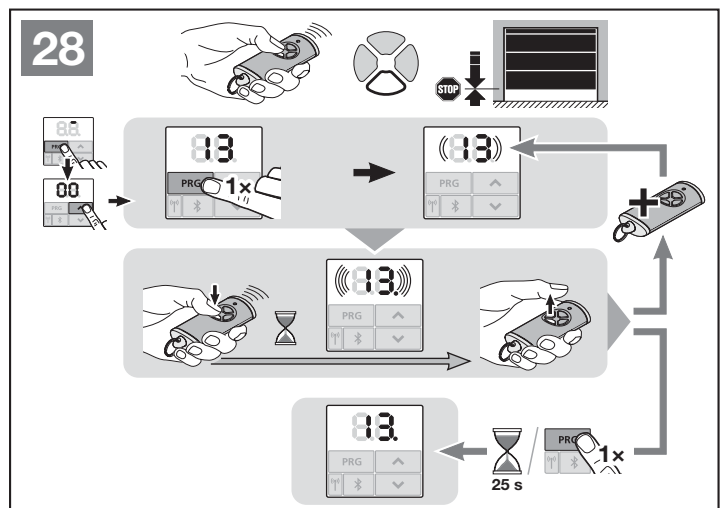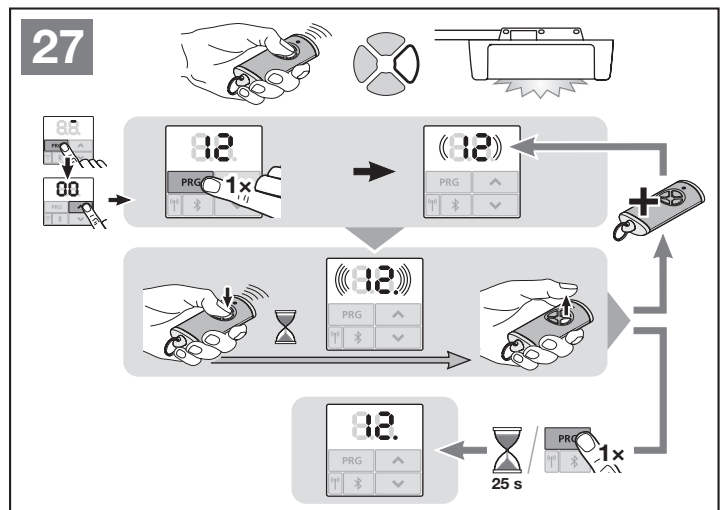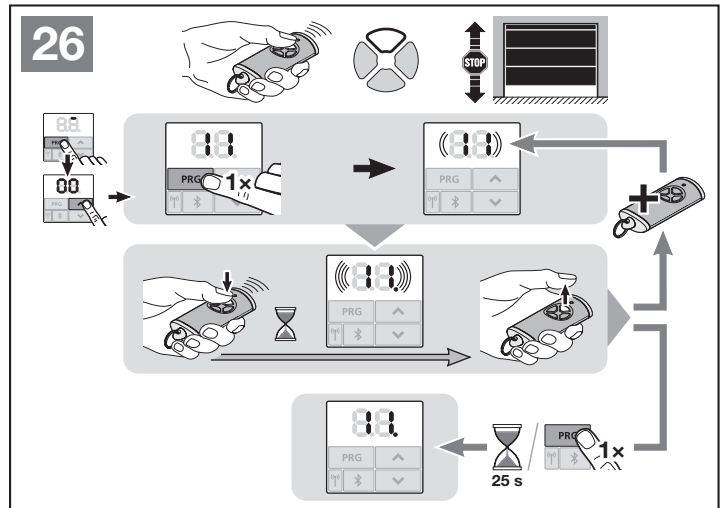
Menu 14: Teach in radio code for choosing OPEN direction:
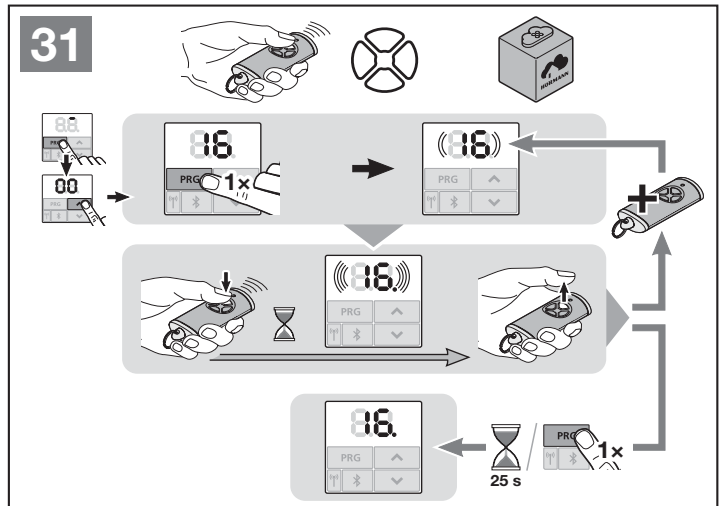
▶ Proceed as with menu **11**.

Menu 15: Teach in radio code for choosing CLOSE direction:

▶ Proceed as with menu **11**.

Menu 16: Teach in all radio codes (homee Brain)

All radio codes and functions are provided and taught in.

▶ Proceed as with menu **11**.

**6.1.5   Menu 19: Delete radio
          – all functions**

The radio codes for individual hand transmitter buttons or individual functions cannot be deleted.

1. Select menu **19**.
   – **00** flashes
2. Select the parameter of the desired function with the [∧] + [∨] buttons.

19	Delete radio
00	Back without deleting
01	Radio
02	Bluetooth®
03	–
04	All

   – The selected parameter flashes.
3. Press the [PRG] button for 5 seconds to confirm deletion.
   – The selected parameter flashes quickly.
   – **19** is illuminated.

GARADOR
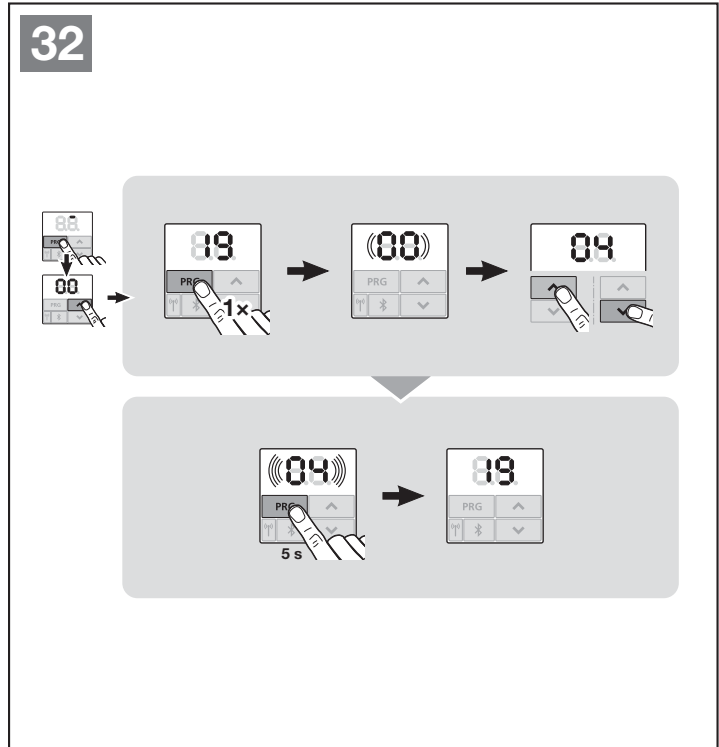
On the menus described in the following:

▶ See also the overview in section 19.

6.1.6 Menu 23: Change the partial opening or ventilation position

The partial opening and ventilation positions depend on the door type and are pre-set at the factory.

Partial opening

🏭	Approx. 260 mm before the CLOSED end-of-travel position
Area	Approx. 120 mm before each end-of-travel position

Ventilation

🏭	100 mm slide travel
Area	35 – 300 mm before the CLOSE end-of-travel position

The partial opening position can be approached as follows:

• Via the 3rd radio channel (menu 13)
• An external radio receiver
• Additional print UAP 1-HCP
• An impulse on the terminals 20 / 23

The ventilation position can be approached and changed as follows:

• Via the HKSI-1 climatic sensor
• Via additional print UAP 1-HCP, for example
• Via homee Brain

NOTES

• The ventilation position can only be changed if at least one **additional** safety device (photocell / leading photocell) is connected in addition to the standard power limit in CLOSE direction.
• A climatic sensor and an **additional** safety device (photocell / leading photocell) must be taught in first. Only then can menu **23 –** parameter **02** be seen and configured.
• If a climatic sensor is connected, the following are automatically activated:
  – The pre-warning phase (menu **32 –** parameter **03**)
  – The advance warning in CLOSE direction (menu **33 –** parameter **00**).
• If the **additional** safety device (photocell / leading photocell) is deactivated or the CLOSE direction is deselected, the changed ventilation position is reset. Menu **23 –** parameter **02** is hidden and can no longer be set.
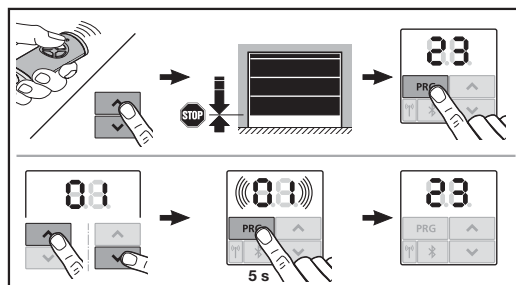
To change the partial opening or ventilation position:

1. Using the [∧] + [∨] buttons, move the door to the desired position via the taught-in impulse radio code or an external control element with impulse function.
2. Select menu **23**.
   – **00** flashes
3. Select the parameter of the desired function with the [∧] + [∨] buttons.

23	Changing the position	
	00	Back without changing
	01	Partial opening position
	02	Ventilation position

   – **01** or **02** flashes
4. Press the [PRG] button for 5 seconds to save this position.
   – **01** or **02** flashes quickly.
   – **23** is illuminated.

The changed position is saved.

If the selected position is too close to the CLOSE end-of-travel position, error **1** appears with a flashing decimal point (see section 17). The factory-set position is set automatically, or the most recent valid position is maintained.

NOTICE

A folding roller bracket from the accessories allows you to ventilate the garage without installing an additional safety device (photocell).

▶ Contact your specialist dealer with regard to fitting and programming.

6.1.7 Menu 25: Operator light deactivated

If menu **25** is activated, the operator light is switched off, even during a door run.

If menu **25** is activated, parameter **01** in menu **30** is also automatically activated.

6.1.8   Menu 26: Illumination period

The operator light switches on as soon as the door is set in motion. Once the door run is complete, the operator light remains on corresponding to the time set (illumination period).

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

26	Illumination period	
00	Deactivated.	
01	30 seconds	
02	60 seconds	🏭
03	120 seconds	
04	180 seconds	
05	300 seconds	
06	600 seconds	

6.1.9   Menu 27: Illumination period for external illumination

The illumination period for a connected external illumination is switched by the operator.

To set the desired function:

▶ Select the menu and parameter for the desired function as described in section 6.

27	Illumination period of the external illumination	
00	Deactivated.	
01	As with menu **26** [1]	
02	60 seconds	
03	180 seconds	
04	300 seconds	🏭
05	600 seconds	

[1] ATTENTION: No maintenance display (**In**).

6.1.10   Menu 28: ON time of the external illumination with additional print

If an external light is connected to an option relay HOR 1-HCP or a universal adapter print UAP 1-HCP (3rd relay), it can be switched on permanently via external control elements.

28	Permanent ON – external light	
00	Deactivated	🏭
01	Activated	

6.1.11   Menu 29: Operator chase light

The menu is only shown and can be selected depending on the operator type.

When the chase light is activated, the operator light indicates the travel direction of the door.

29	Chase light	
00	Deactivated	
01	Activated during door run	
02	Activated during start warning / advance warning	
03	Activated during door run and start warning / advance warning	🏭

6.1.12   Menu 30: External relay functions

The option relay HOR 1-HCP or universal adapter print UAP 1-HCP (3rd relay) are required to connect an external lamp or warning light.

Further functions, such as OPEN and CLOSE limit switch reporting, choosing direction or operator light, can be switched with the universal adapter print UAP 1-HCP (3rd relay).

To set the desired relay functions:

▶ Select the menu and the parameter for the desired function as described in section 6.

30	External relay functions HOR 1-HCP, UAP 1-HCP (3rd relay)	
00	Deactivated	
01	External illumination function [1]	🏭
02	OPEN limit switch reporting	
03	CLOSE limit switch reporting	
04	Partial opening limit switch reporting	
05	Momentary signal at the time of command	
06	Error message on the display (malfunction)	
07	Start warning / advance warning [2] permanent signal	
08	Start warning / advance warning [1] flashing	
09	Relay energises during travel and de-energises in the end-of-travel positions.	
10	Maintenance interval signal (display **In**)	
11	As with menu **26** [1]	

[1] ATTENTION: No maintenance display (**In**).
[2] Advance warning only if activated in menu 32.

If parameter **00** or **11** is activated in menu **30**, the function in menu **25** is automatically deactivated.

Timeout

If you do not press the PRG button to save the desired parameter within 60 seconds, the default parameter is maintained.

6.1.13   Menu 32: Pre-warning phase

If a travel command is output, the operator light flashes before the door run begins. A warning light connected to the option relay also flashes.

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

32	Pre-warning time		
	00	Deactivated If a travel command is output, the door run is started immediately.	🏭
	01	1 second	
	02	2 seconds	
	03	3 seconds	
	04	4 seconds	
	05	5 seconds	
	06	10 seconds	
	07	15 seconds	
	08	20 seconds	
	09	30 seconds	
	10	60 seconds	

Timeout

If you do not press the PRG button to save the desired parameter within 60 seconds, the default parameter is maintained.

6.1.14   Menu 33: Advance warning

In menu **33**, set whether the advance warning time is active in the CLOSE direction or OPEN + CLOSE direction.

33	Advance warning direction		
	00	Advance warning in the CLOSE direction	🏭
	01	Advance warning in the OPEN + CLOSE direction	

6.1.15   Menu 34: Automatic timer

With the automatic timer, the door opens upon a travel command. Once the set hold-open phase and pre-warning phase have elapsed, the door closes automatically.

NOTES

- The automatic timer may/can only be activated within the scope of EN 12453 if at least one **additional** safety device (photocell / leading photocell) is connected in addition to the standard power limit.
- An **additional** safety device (photocell / leading photocell) must be taught in first. Only then can menus **34** - **35** be seen and configured.
- If the automatic timer is set (menus **34** - **35**), the following are also automatically activated:
  – The pre-warning phase (menu **32** – parameter **03**)
  – The advance warning in CLOSE direction (menu **33** – parameter **00**).
- If the **additional** safety device (photocell / leading photocell) is deactivated or the CLOSE effective direction is deselected, the menus **34** - **35** are hidden and can no longer be configured.

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

34	Automatic timer		
	00	Deactivated	🏭
	01	Hold-open phase of 5 seconds	
	02	Hold-open phase of 10 seconds	
	03	Hold-open phase of 20 seconds	
	04	Hold-open phase of 30 seconds	
	05	Hold-open phase of 60 seconds	
	06	Hold-open phase of 90 seconds	
	07	Hold-open phase of 120 seconds	
	08	Hold-open phase of 180 seconds	
	09	Hold-open phase of 240 seconds	
	10	Hold-open phase of 300 seconds	

Timeout

If you do not press the PRG button to save the desired parameter within 60 seconds, the default parameter is maintained.

6.1.16   Menu 35: Automatic timer from the partial opening position

NOTES

- The automatic timer may/can only be activated within the scope of EN 12453 if at least one **additional** safety device (photocell / leading photocell) is connected in addition to the standard power limit.
- An **additional** safety device (photocell / leading photocell) must be taught in first. Only then can menus **34** - **35** be seen and configured.
- If the automatic timer is set from the partial opening position (menus **34** - **35**), the following are also automatically activated:
  - The pre-warning phase (menu **32** – parameter **03**)
  - The advance warning in CLOSE direction (menu **33** – parameter **00**).
- If the **additional** safety device (photocell / leading photocell) is deactivated or the CLOSE effective direction is deselected, the menus **34** - **35** are hidden and can no longer be configured.

To set the desired function:

▶ Select the menu and the parameter for the desired function as described in section 6.

35	Automatic timer – partial opening	
00	Deactivated	🏭
01	Hold-open phase as set in menu **34**	
02	Hold-open phase of 5 minutes	
03	Hold-open phase of 15 minutes	
04	Hold-open phase of 30 minutes	
05	Hold-open phase of 45 minutes	
06	Hold-open phase of 60 minutes	
07	Hold-open phase of 90 minutes	
08	Hold-open phase of 120 minutes	
09	Hold-open phase of 180 minutes	
10	Hold-open phase of 240 minutes	

Timeout

If you do not press the [PRG] button to save the desired parameter within 60 seconds, the default parameter is maintained.

6.1.17   Menu 36: Control buttons on the operator

The [⌃] + [⌄] buttons can be deactivated and activated on the operator. External control elements and the hand transmitter remain active.

36	Control buttons on the operator	
00	Deactivated	
01	Activated	🏭

6.1.18   Menu 37: Reset

37	Reset	
00	Back without reset	
01	Reset / BUS scan HCP-BUS	
02	Reset / parameters of menus 20-36	
03	Factory reset	

If parameter **01** is selected, accessories connected to the BUS jack are deleted and recognised again. The **b.S.** display flashes quickly for BUS scan.

If parameter **02** is selected, all settings of menus **20** - **36** are restored to the factory setting.

If parameter **03** is selected, all settings, taught-in travel and forces are restored to the factory setting. The operator must be taught in again.

▶ Section 5

NOTICE

Taught-in radio codes are maintained.

7   Final work

Upon completion of all required steps for initial start-up:

▶ Close the cover.
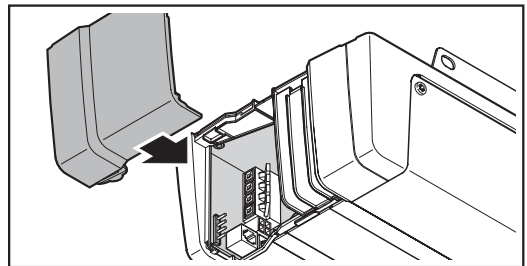
7.1 Fixing the warning sign

▶ Fix the supplied crushing warning sign in a prominent, cleaned and degreased place, for example near the permanently installed button for moving the operator.
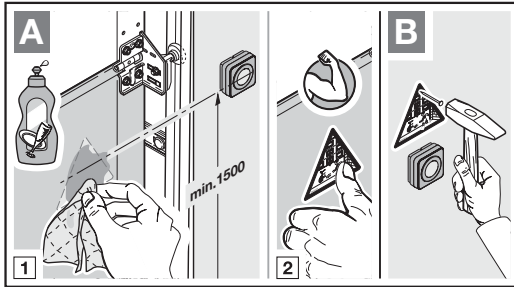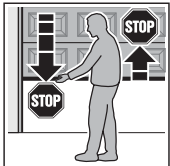

7.2 Function test

⚠ WARNING

Danger of injuries due to faulty safety equipment
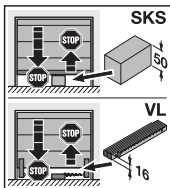In the event of a malfunction, there is a danger of injuries due to faulty safety equipment.

▶ After the learning runs, the person commissioning the system must check the function(s) of the safety equipment.

The system is ready for operation only after this.

To check the safety reversal:

1. Stop the door with both hands while it is **closing**.
   The door system must stop and initiate the safety reversal.
2. Stop the door with both hands while it is **opening**.
   The door system must switch off and take the load off.
3. Position a test object with a height of approx. 50 mm (SKS) or 16 mm (VL) in the centre of the opening and close the door.
   The door system must stop and initiate the safety reversal as soon as it reaches the obstacle.

▶ In the event of a failure of the safety reversal, a specialist must be commissioned immediately for the inspection and repair work.

8 Hand transmitter HSE 4 BiSecur

⚠ WARNING

Danger of injury during door travel
Persons may be injured by door travel if the hand transmitter is actuated.

▶ Make sure that hand transmitters are kept away from children and can only be used by people who have been instructed on how the remote-control door system functions!
▶ If the door has only one safety feature, only operate the hand transmitter if you are within sight of the door!
▶ Only drive or pass through remote-control door systems when the door is at a standstill!
▶ Never stand in the opening of the door system.
▶ Please note that an unwanted door run may occur if a hand transmitter button is accidentally pressed (e.g. if stored in a pocket/handbag).

⚠ CAUTION

Danger of injuries due to unintended door run
An unintended door run may occur while teaching in the radio system.

▶ Make sure no persons or objects are in the door's area of travel when teaching in the radio system.

⚠ CAUTION

Danger of burns from the hand transmitter
Direct sunlight or great heat can heat up the hand transmitter. As a result, burns could occur during use.

▶ Protect the hand transmitter from direct sunlight and great heat (e.g. by placing it in a stowage compartment in the dashboard).

⚠ CAUTION

Danger of burns from hazardous materials
If you ingest the battery, burns may result from hazardous materials in the battery.

▶ Do not ingest the battery and make sure that children cannot get their hands on the battery.

ATTENTION

Functional impairment caused by effects of the environment

High temperatures, water and dirt impair the function of the hand transmitter.

Protect the hand transmitter from the following conditions:

- Direct sunlight (permissible ambient temperature 0°C to +50°C)
- Moisture
- Dust

If you start up, enhance or change the radio system:

- Only possible if the operator is at rest.
- Perform a function check.
- Only use original parts.
- Local conditions may affect the range of the radio system.

If there is no separate garage entrance, perform all programming changes and extensions of radio systems while standing in the garage.

8.1   Changing the battery

3 V battery, type: CR 2032, lithium

After inserting the battery, the hand transmitter is ready for operation.

1 × 3 V
CR 2032
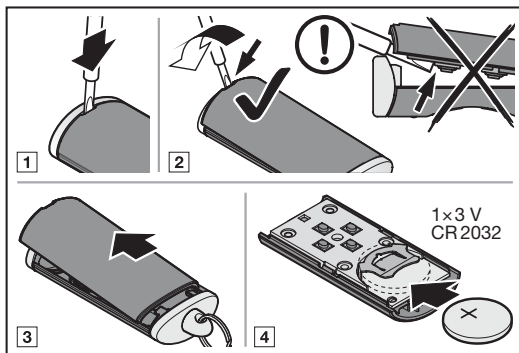
⚠ WARNING

Risk of explosion due to incorrect battery type

There is the risk of explosion if the battery is replaced with an incorrect battery type.

▶ *Only* use the recommended battery type.

⚠ WARNING

Danger to life due to internal burns

If you swallow the battery, severe internal burns may result from hazardous materials in the battery. The burns can lead to death within 2 hours.

▶ Do not swallow the battery and make sure that children cannot get their hands on the battery.

ATTENTION

Destruction of the hand transmitter by leaking batteries

Batteries can leak and destroy the hand transmitter.

▶ Remove the battery from the hand transmitter if it is out of use for a long period of time.

8.2   Hand transmitter operation

Each hand transmitter button is assigned to a radio code.

▶ Press the button of the hand transmitter whose radio code you want to transmit.
 - The LED is illuminated blue for 2 seconds.
 - The radio code is transmitted.

NOTICE

If the radio code of the hand transmitter button is inherited from another hand transmitter, press and hold the hand transmitter button until the LED flashes alternately in red and blue and the desired function is performed.

Battery status display on the hand transmitter

The LED flashes red twice; the radio code **continues** to be transmitted.	The battery **should** be replaced soon.
The LED flashes red twice. **Following this, the radio code is** no longer **transmitted.**	The battery **must** be replaced immediately.

8.3   Inheriting/transmitting a radio code

1. Press and hold the button of the hand transmitter whose radio code you want to inherit/transmit.
 - The LED is illuminated blue for 2 seconds and then goes out.
 - After 5 seconds, the LED alternates flashing in red and blue.
 - The hand transmitter button sends the radio code.
2. If the radio code is taught in and recognised, release the hand transmitter button.
 - The LED goes out.

GARADOR

NOTICE

You have 15 seconds to inherit / transmit the radio code. If inheriting/transmitting the code was not successful within this period of time, repeat the process.

8.4   Hand transmitter reset

1.   Open the hand transmitter housing.
2.   Remove the battery for 10 seconds.
3.   Press and hold a hand transmitter button.
4.   Insert the battery.
     –   The LED slowly flashes in blue for 4 seconds.
     –   The LED flashes rapidly in blue for 2 seconds.
     –   The LED is illuminated in blue for a prolonged period of time.
5.   Release the hand transmitter button.
     All radio codes have been newly assigned.
6.   Close the hand transmitter housing.

NOTICE

If you release the hand transmitter button prematurely, no new radio code is allocated.

8.5   LED display

Blue (BU)

State	Function
Illuminated for 2 seconds	A radio code is being transmitted
Flashes slowly	Hand transmitter is in teach-in mode
Flashes quickly after slow flashing	A valid radio code was detected during the teach-in procedure
Flashes slowly for 4 seconds, Flashes quickly for 2 seconds Illuminated for a prolonged period	Reset is being performed and completed

Red (RD)

State	Function
Flashes 2 ×	The battery is almost empty

Blue (BU) and Red (RD)

State	Function
Flashing alternately	Hand transmitter is in inherit / transmit mode

8.6   Cleaning the hand transmitter

ATTENTION
Damaging the hand transmitter by faulty cleaning
Cleaning the hand transmitter with unsuitable cleaning agents can damage the hand transmitter housing and the hand transmitter buttons.
▶   Clean the hand transmitter with a clean, soft, damp cloth.

NOTICE

White hand transmitter buttons can change their colour when used regularly over an extended period of time, if they come in contact with cosmetic products (e.g. hand cream).

8.7   Disposal

Electrical and electronic devices, as well as batteries, must not be disposed of in household rubbish, but must be returned to the appropriate recycling facilities.

8.8   Technical data

Type	Hand transmitter HSE 4 BiSecur
Frequency	868 MHz
Power supply	1 × 3 V battery, type CR 2032, lithium
Perm. ambient temperature	0 °C to + 50 °C
Max. humidity	93%, non-condensing
Protection category	IP 20

8.9   EU declaration of conformity for the hand transmitter

The manufacturer of this operator herewith declares that the provided hand transmitter complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

9   Bluetooth®

The garage door operator is equipped with a Bluetooth receiver. The operator can be operated via Bluetooth® using the corresponding BlueSecur application (app) on a smartphone.

9.1   Enabling / disabling Bluetooth®

If Bluetooth® is disabled:

1. Briefly press the 🚼 button on the operator control panel.
   Bluetooth® is enabled and in receiver mode. The Bluetooth® symbol flashes.
2. A connection can be established. The Bluetooth receiver remains in receiver mode for 5 minutes and then switches back to operation mode. The Bluetooth® symbol is illuminated.
3. Briefly press the 🚼 button on the operator control panel.
   Bluetooth® is disabled. The Bluetooth® symbol is off.
4. To enable it again, repeat step 1.

9.2   BlueSecur application (app)

The BlueSecur app is available free of charge in the App Store℠ or from Google™ Play.

▶ Install the BlueSecur app on your smartphone.

9.2.1   System requirements

Operating system		Software version
Android	Smartphone	from 5
iOS	Smartphone	from 9

9.2.2   App authorisations

In order to use the full functionality of the app, you must allow the following authorisations:

Camera		To scan the QR code.
Bluetooth®		For the communication between app and receiver.
Location	Android	For the Bluetooth function.

9.2.3   User roles

Admin	The **first** user who connects with the receiver via the QR code. One other admin can be added.
	Allocates access rights (keys) for users.
	Can delete access rights (keys) for users.
	Can adjust relay settings.
User	Receive access rights (keys) from the admin.

9.2.4   App functions

In the app, you can select the functions (impulse, partial opening, choosing OPEN and CLOSE direction) and notifications. The factory setting is the impulse function.

Trigger a command

When the user is within range of the Bluetooth receiver, a command can be triggered using the app.

9.2.5   Delete device

If the garage door operator is deleted in the app using the dustbin icon, you can no longer operate the operator using the smartphone. However, the smartphone is still saved in the operator.

If you want to remove the smartphone from the operator, select parameter **02** in menu **19** and delete all Bluetooth devices (see section 6.1.5).

9.2.6   Backup

To avoid losing data, you can create a backup on the Hörmann server. Saved data can be accessed there at any time.

To create a backup, you must first register.

All of the following data existing up to this point will be saved:

- Devices (garage door operators)
- Purchased sets of keys
- Distributed keys

A backup is necessary for restoring data, if, for example,

- the admin changes the smartphone,
- a reset is to be performed,
- the smartphone is defective or lost.

A backup is strongly recommended to secure the data.

9.3   Configuring Bluetooth®

The first user that connects with the Bluetooth receiver using the supplied QR code is the admin. This procedure can only be performed once!

1. Make sure that you are in range of the Bluetooth receiver.
2. Start the app.
3. Select the **Teach in** field (iOS) or the **+** symbol (Android).
   The camera opens.
4. Scan the QR code on the supplied key card.
   The first user is connected with the Bluetooth receiver as the admin.
5. Assign a name to the device.

The Bluetooth receiver is in operation mode.

Keep the key card in a safe place. The key card will be required if you need to set up the Bluetooth receiver again at a later stage.

GARADOR

9.4   Operation

A connection to the Bluetooth receiver is always established exclusively through communication with the app, e.g. for triggering a command, adjusting settings in the app or user management.

Only one smartphone can be connected to the Bluetooth receiver at a time. A connection takes approx. 1 second. Only after this can the next smartphone connect to the receiver.

9.4.1   Range

Range and performance are highly dependent on the smartphone. For communication with the receiver, the user must be in range to perform the following actions:
- Trigger a command
- Set up and manage devices
- Delete devices
- Delete user authorisations

9.4.2   Synchronising

The date and time is synchronised in the receiver with each communication of the admin's smartphone with the receiver.

9.4.3   Power failure

Taught-in keys, user data and settings are saved in a power failure-proof manner.

9.4.4   Loss of the smartphone

In the event that the smartphone is lost, unauthorised parties could have access to the garage door. In this case, select menu **19** – parameter **02** and delete the device from the Bluetooth receiver (see section 6.1.5).

9.5   Keys

9.5.1   Purchasing sets of keys

In order to distribute keys, the admin must purchase sets of keys using the in-app purchase function. Payment is made according to the App Store^{SM} or Google^{TM} Play policies.

One-time keys are free of charge.

9.5.2   Distributing keys

The admin can distribute keys to users via all installed messaging services, e.g. e-mail, Facebook Messenger, iMessage, WhatsApp, etc.

The admin can only distribute a key **once** to another admin.

The admin can distribute a maximum of 15 one-time keys simultaneously.

NOTE

The BlueSecur app must be installed on the smartphone to use the key. If users have not installed the app upon receiving a key, they will be directed to download it from the App Store^{SM} or Google^{TM} Play.

Key type	Validity
Admin key	Always valid
User key	Always valid or just for a defined time period
One-time key	Valid only once and within a maximum of 1 month

The admin has 2 options for defining the time of validity for one-time keys:

1. The one-time key is valid immediately and can be used just once, within 1 month.
2. The one-time key is valid from a defined date and can be used just once, within 1 month.

Safety when distributing keys
When the admin distributes a key to a user, for security reasons, the user must authenticate himself/herself using a PIN generated by the server. The user must enter this PIN before the key can be provided to him/her.

9.5.3   Admin key

Admin keys cannot be deleted, not even by the 1st admin. If you want to delete an admin key, select menu **19** – parameter **02** and delete the device from the Bluetooth receiver (see section 6.1.5).

If an admin key has been distributed by the 1st admin, the 2nd admin must be in range of the receiver to import the key. Once the receiver has recognised the valid admin key, the rights can be used.

9.6 External Bluetooth antenna*
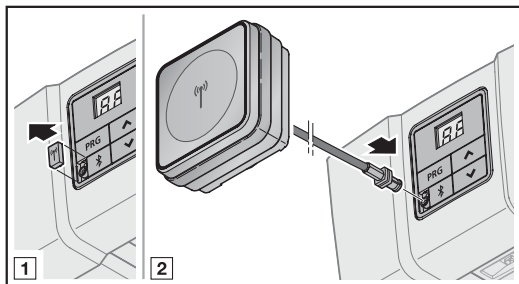
An external antenna is recommended in the event of a limited range.

You must configure an external antenna in the app settings. The factory setting is the internal antenna.

9.7 EU Declaration of Conformity for Bluetooth Receivers

The manufacturer of this operator herewith declares that the integrated Bluetooth receiver complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

9.8 Open source license

The following open source software is included with this product:

mbed TLS 2.16.1 (https://tls.mbed.org)

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You will find information on specific language-relevant rights and restrictions in the license, whose complete text you will find in the corresponding "BlueSecur" app.

10 External receivers*

10.1 Radio receiver ESE BiSecur

If the range is limited, the following functions can be controlled with an external radio receiver:

- Impulse
- Operator light
- Partial opening
- Choosing OPEN direction
- Choosing CLOSE direction

If an external radio receiver is retrofitted, be sure to delete the radio codes for the integrated radio module.

▶ Section 6.1.5

10.2 Teaching in a radio code on the external radio receiver

▶ Teach in the radio code for a hand transmitter button using the operating instructions for the external receiver.

10.3 EU Declaration of Conformity for Receivers

The manufacturer of this operator herewith declares that the integrated receiver complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

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* – Accessory, not included as standard equipment!

11   Operation

⚠ WARNING

Danger of injury during door travel

If people or objects are in the area around the door while the door is in motion, this can lead to injuries or damage.

▶ Children are not allowed to play near the door system.
▶ Make sure that no persons or objects are in the door's area of travel.
▶ If the door system has only one safety feature, only operate the garage door operator if you are within sight of the door's area of travel.
▶ Monitor the door travel until the door has reached the end-of-travel position.
▶ Drive or walk through the door openings of remote-controlled door systems only when the garage door is in the OPEN end-of-travel position!
▶ Never stand under the open door.

⚠ CAUTION

Danger of crushing in the boom

Do not reach into the boom with your fingers during a door run, as this can cause crushing.

▶ Do not reach into the boom during a door run

⚠ CAUTION

Danger of injury from the cord knob

If you hang on the cord knob, you may fall and injure yourself. The operator could break away and injure persons or damage objects that are located underneath, or the operator itself could be destroyed.

▶ Do not hang on the cord knob with your body weight.

⚠ CAUTION

Danger of injury resulting from uncontrolled door travel in the CLOSE direction if one of the counterbalance springs breaks and the slide carriage is released.

If a retrofit set is not installed, uncontrolled door travel in the CLOSE direction may occur if the slide carriage is released while a counterbalance spring is broken, the door is improperly balanced or the door is not completely closed.

▶ The responsible fitter must install a retrofit set on the slide carriage if the following applies:
  – The standard DIN EN 13241-1 applies
  – The garage door operator is retrofitted to a Hörmann **sectional door without spring safety device (BR30)** by a technical expert.

This set includes a screw that secures the slide carriage against uncontrolled unlocking as well as a new cord knob sign with images showing how the set and the slide carriage should be handled for the two operation modes of the boom.

NOTICE

The use of an emergency release or an emergency release lock is **not possible** in conjunction with the retrofit set.

ATTENTION

Damage due to the cord of the mechanical release

If the cord of the mechanical release becomes caught on a roof rack system or any other protrusions of the vehicle or door, this can lead to damage.

▶ Make sure that the cable cannot become caught.

11.1   Instructing users

The operator may be used by

- children over 8 years of age
- persons with limited physical, sensory or mental capabilities
- persons with a lack of experience or knowledge.

The condition for use of the operator is that the above-mentioned children / persons

- are supervised
- instructed on safe use
- understand the resulting dangers.

Children must not play with the operator.

▶ All persons using the door system must be shown how to operate the garage door operator properly and safely.
▶ Demonstrate and test the mechanical release as well as the safety reversal.

11.1.1   Cord knob mechanical release

The cord knob for mechanical release may not be installed at a height greater than 1.8 m from the garage floor. The cord may need to be extended on-site, depending on the height of the garage door.

▶   When extending the cord, please make sure that the cord cannot become caught on a roof rack system or any other protrusions of the vehicle or door.

⚠ WARNING

Danger of injury due to a fast-closing door

If the cord knob is actuated while the door is closing, the door may close quickly due to weak, broken springs or faulty counterbalance.

▶   Only pull the cord knob when the door is closed.

▶   Pull the cord knob when the door is closed. The door is now unlocked and should be easy to open and close by hand.

11.1.2   Mechanical release by emergency release lock:

(Only for garages without a second entrance)

▶   When the door is closed, actuate the emergency release lock. The door is now unlocked and should be easy to open and close by hand.

11.2   Functions of various radio codes

Each hand transmitter button is assigned to a radio code. To operate the operator with the hand transmitter, the radio code for the respective hand transmitter button must be taught in to the channel of the desired function on the integral radio receiver.

▶   Section 6.1.4

NOTICES

•   If the radio code of the hand transmitter button is inherited from another hand transmitter, press and hold the hand transmitter button until the LED flashes alternately in red and blue and the desired function is performed.

•   If the operator recognises an inherited radio code that has not yet been taught into the integrated radio receiver, the operator automatically changes to learning mode for 10 seconds. **11**, **12**, **13**, **14** or **15** flashes on the display.

11.2.1   Channel 1/impulse

In normal operation, the garage door operator works with the impulse sequence control.

Pressing the corresponding hand transmitter button, the **T** button or an external button triggers the impulse.

1st impulse: The door runs towards an end-of-travel position.
2nd impulse:The door stops.
3rd impulse: The door runs in the opposite direction.
4th impulse: The door stops.
5nd impulse:The door runs in the direction of the end-of-travel position selected in the 1st impulse.
etc.

11.2.2   Channel 2 / lighting

Pressing the corresponding hand transmitter button for light switches the operator light on and off prematurely.

11.2.3   Channel 3 / partial opening

If the door is **not in the partial opening position**, the hand transmitter button with the radio code for partial opening triggers a door run to this position.

If the door is in the **partial opening position**, the hand transmitter button triggers the following:

•   A door run in the CLOSE end-of-travel position with the radio code for partial opening.
•   A door run in the OPEN end-of-travel position with the radio code for impulse.

11.2.4   Channel 4 / choosing OPEN direction

The hand transmitter button with the radio code for OPEN position triggers the impulse sequence (Open – Stop – Open – Stop) for a door run to the OPEN end-of-travel position.

11.2.5   Channel 5/choosing CLOSE direction

The hand transmitter button with the radio code for CLOSE position triggers the impulse sequence (Close – Stop – Close – Stop) for a door run to the CLOSE end-of-travel position.

11.2.6   Channel 6 / homee Brain

All radio codes and functions are provided and taught in and can be operated using the corresponding apps.

11.3   Garage door operator behaviour after 3 fast OPEN door runs in a row

The motor of the garage door operator is equipped with thermal overload protection. If the operator performs 3 fast runs in the OPEN direction within 2 minutes, the overload protection reduces the travel speed. Runs in the OPEN and CLOSE direction are then performed at the same speed. After an idle time of another 2 minutes, the next run in the OPEN direction is then once again fast.

11.4 Behaviour during a power failure (without an emergency battery)

During a power failure, you have to open and close the door system by hand. For this, you have to disengage the operator.
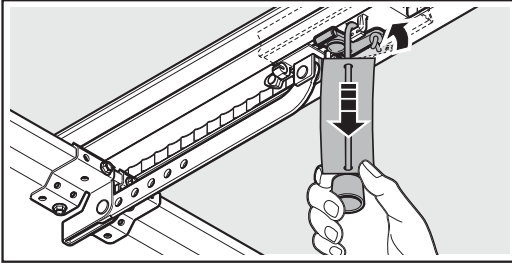
▶ Pull on the cord of the mechanical release. The slide carriage is disengaged for manual operation.

11.5 Behaviour after the power returns (without emergency battery)

After the power returns:

- **8.8.** is illuminated for 1 second on the display. Or
- **8.8.** flashes until all taught-in radio codes are loaded.
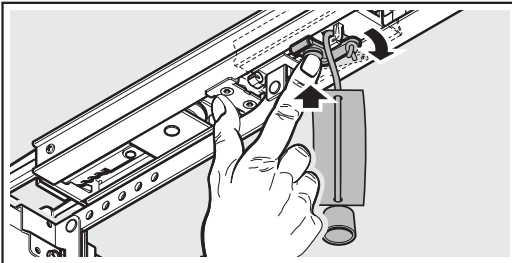
▶ Push the green button on the slide carriage. The slide carriage is re-engaged for automatic operation.

11.6 Reference run

Display

A reference run is required:
- If the power limit is activated 3 × in a row during a run in the CLOSE direction.

A reference run is performed:
- Only in the OPEN direction. The operator light and display flash.

- At a reduced speed.
- With a minor increase in force of the most recently taught-in forces.

The impulse command triggers the reference run. The operator moves to the OPEN end-of-travel position.

12 Inspection and maintenance

The garage door operator is maintenance-free.

In the interest of your own safety, however, we recommend having the door system inspected and maintained **annually** by a qualified person in accordance with manufacturer specifications.

⚠ **WARNING**

Danger of injury due to unexpected door run

An unexpected door run may occur during inspection and maintenance work if the door system is inadvertently actuated by other persons.

- ▶ Disconnect the mains plug **and** the plug of the emergency battery whenever performing work on the door system.
- ▶ Safeguard the door system against being switched on again without authorisation.

Inspection and repairs may only be carried out by a qualified person. If necessary, contact your specialist dealer.

A visual inspection may be carried out by the operator.

- ▶ Check all safety and protective functions **monthly**.
- ▶ Check all safety devices without self-testing **every six months**.
- ▶ Any malfunctions and/or defects must be remedied **immediately**.

Do not allow children to clean or maintain this operator without supervision.

12.1 Tension of the toothed belt

The toothed belt of the boom is tensioned optimally at the factory.

During the start-up and slow-down phase, with larger doors the toothed belt may briefly hang out of the boom profile. However, this does not constitute a technical malfunction and does not negatively affect the function and service life of the operator.

12.2 Checking safety reversal / reversing

To check safety reversal / reversing:
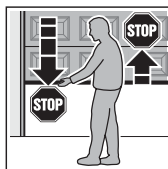
1. Stop the door with both hands while it is **closing**.
   The door system must stop and initiate the safety reversal.
2. Stop the door with both hands while it is **opening**.
   The door system must switch off and take the load off.
3. Position a test object with a height of approx. 50 mm (SKS) or 16 mm (VL) in the centre of the opening and close the door.
   The door system must stop and initiate the safety reversal as soon as it reaches the obstacle.

▶ In the event of a failure of the safety reversal, a specialist must be commissioned immediately for the inspection and repair work.

12.3 Change the light module
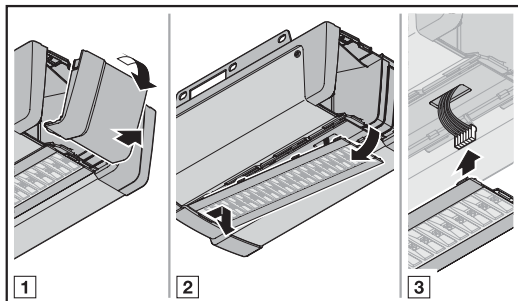
Type	Operator light module
Nominal power	4.9 W – 30 LEDs 3.3 W – 20 LEDs
Nominal voltage	37 V

When the operator light is on, a voltage of 37 V DC is applied.

▶ Only exchange the operator light when the operator is not energised.

13 Dismantling and disposal

NOTICE

When dismantling the system, observe the applicable job safety rules and regulations.

Have a specialist dismantle the garage door operator in the reverse order of these instructions and dispose of it properly.

14 Warranty conditions

Warranty period

In addition to the statutory warranty provided by the dealer in the sales contract, we grant the following warranty for parts from the date of purchase:

- 5 years on operator technology, motor and motor control
- 2 years on radio equipment, accessories and special systems

Claims made under the warranty do not extend the warranty period. For replacement parts and repairs the warranty period is six months or at least the remainder of the warranty period.

Prerequisites

The warranty claim only applies in the country where the equipment was purchased. The product must have been purchased through our authorised distribution channels. A claim under this warranty exists only for damage to the object of the contract itself.

The receipt of purchase substantiates your right to claim under the warranty.

Services

For the duration of the warranty we shall eliminate any product defects that are proven to be attributable to a material or manufacturing fault. We pledge to replace free of charge and at our discretion the defective goods with non-defective goods, to carry out repairs, or to grant a price reduction. Replaced parts become our property.

Reimbursement of expenditure for dismantling and fitting, testing of parts as well as demands for lost profits and compensation for damages are excluded from the warranty.

Damage caused by the following is also excluded:

- Improper fitting and connection
- Improper initial start-up and operation
- External factors such as fire, water, abnormal environmental conditions
- Mechanical damage caused by accidents, falls, impacts
- Negligent or intentional destruction
- Normal wear or deficient maintenance
- Repairs conducted by unqualified persons
- Use of non-original parts
- Removal or defacing of the data label

15   EC / EU Declaration of Conformity / Declaration of Incorporation

(as defined in EC Machinery Directive 2006/42/EC according to Annex II, Part 1 A for a complete machine or Part 1 B for incorporation of an incomplete machine).

For the end user to fit this garage door operator, only a combination with specifically approved door types is permitted. These door types can be found in the complete EC/EU Declaration of Conformity in the provided log book.

However, if this garage door operator is not combined with an approved door type, the fitter will be considered a manufacturer of the complete machine.

In this case, fitting may only be done by a fitting company, as only they have knowledge of the relevant safety regulations, valid directives and standards, as well as the required testing and measuring devices.

The appropriate Declaration of Incorporation can also be found in the provided log book.

16   Technical data

Mains voltage	230 / 240 V, 50 / 60 Hz
Standby	< 1 W
Frequency	• Radio system: 868 MHz • Bluetooth: 2.4 GHz
Max. humidity	93%, non-condensing
Protection category	Only for dry rooms
Automatic safety cut-out	Is automatically taught in for both directions separately
End-of-travel position cut-out / power limit	• Self-learning • Wear-free, as it has no mechanical switches • Additionally integrated travel time limit of 90 s, side sliding sectional door 180 s • Automatic safety cut-out, readjusting at every door run.
Rated load	See data label
Pull and push force	See data label
Motor	Direct current motor with hall sensor
Switching power supply	With thermal protection
Connection	• Screw terminal for external devices with protective low voltage, such as internal and external push buttons with impulse operation • Screwless connection technology for external 2-wire buttons and photocells
Special functions	• Photocell or closing edge safety device can be connected • Option relay, adapter print and additional HCP BUS participants can be connected
Quick release	Actuated from inside with pull cord in the event of a power failure
Universal fittings	For up-and-over doors and sectional doors
Door travel speed	• Max. 14 cm/s[1] for travel in the CLOSE direction • Max. 25 cm/s[1] for travel in the OPEN direction
Airborne sound emission of the garage door operator	≤ 70 dB (A)
Side guide	• Extremely flat with 30 mm • With integrated anti-lift kit • With maintenance-free toothed belt

1) Depending on operator type, door type, door size and door leaf weight

17   Displaying errors, warnings and operating modes

17.1   Operator light messages

Status	Function
Flashes slowly	Learning run or reference run is being performed
Flashes once	Factory reset successful
Flashes 2× once	The operator has not been taught in (delivery condition)
Flashes 3× once	During the pre-warning phase
	Maintenance interval has been reached

17.2   Display of errors and warnings

Display	Error/warning	Possible cause	Remedy
8.8.	Not possible to set the reversal limit	When setting the SKS / VL reversal limit, an obstacle is in the way	Remove the obstacle
		The position of the reversal limit is > 200 mm before the CLOSE end-of-travel position	Pressing the ⌃ or ⌄ button acknowledges the error. Select a position < 200 mm before the CLOSE end-of-travel position
	Setting the partial opening position not possible	The partial opening position is too close to the CLOSE end-of-travel position (≤ 120 mm slide travel)	The partial opening position must be > 120 mm
	Setting the ventilation position not possible	The ventilation position is too close to the CLOSE end-of-travel position (≤ 16 mm slide travel)	The ventilation position must be > 16 mm
8.2.	Safety equipment on SE1	No safety devices are connected	Connect a safety device.
			Deactivate the safety device in the menu by performing a reset (menu 37).
		The safety device signal is interrupted before travel	Set / position the safety device
			Check the connecting leads and, if necessary, replace them
		The safety device is defective	Replace the safety device
8.3.	Power limit in the CLOSE direction	The door is too sluggish or does not move smoothly	Correct the door travel
		Obstacle in door area	Remove the obstacle and teach in the operator again, if necessary
8.4.	Static current circuit interrupted	The wicket door is open	Close the wicket door
		The magnet has been fitted the wrong way	Fit the magnet correctly (see the instructions for the wicket door contact)
		The testing result is not OK	Exchange the wicket door contact
		Static current circuit interrupted on the accessory connected to the BUS jack.	Check accessory on the BUS jack
8.5.	Power limit in the OPEN direction	The door is too sluggish or does not move smoothly	Correct the door travel
		Obstacle in door area	Remove the obstacle and teach in the operator again, if necessary

Display	Error/warning	Possible cause	Remedy
86	System error	Internal error	Perform a factory reset and teach in the operator again; if necessary, replace it
	Travel time limit	The belt is torn	Exchange the belt
		The operator is defective	Exchange the operator
87	Communication error	Communication with control element or additional print is faulty	Check the connecting leads and, if necessary, replace them
			Check the control element or additional print and, if necessary, replace them.
88	Control elements/ operation	Error during input	Check and change the input
		Input of invalid value	Check and change the input value
	Travel command not possible	The operator was locked for the control elements and a travel command was issued	Release the operator for the control elements
			Check the IT3b connection
89	Specific to taught-in safety devices	Self-testing safety device is interrupted	Check the safety device and, if necessary, replace it
		Closing edge safety device/leading photocell actuated	Remove the obstacle
		Closing edge safety device/leading photocell defective or not connected	Check the closing edge safety device / leading photocell, exchange or connect as needed
10	Voltage error (over / undervoltage)	In battery operation: signalling In the event of power supply undervoltage: Internal error without signalling	Charge battery, check voltage source
11	Spring	Spring tension decreasing	Check and adjust the spring tension
		Spring break	Exchange the springs
88	No reference point	The power limit was activated in the CLOSE direction 3 × in a row.	Move the door to the OPEN end-of-travel position
8U	The operator has not been taught in	No error The operator has not been taught in yet	Teach in the operator (see section 5)
In	Maintenance display flashes in every end-of-travel position	No error The maintenance interval set by the fitter has been exceeded.	Have the door system inspected and maintained by a qualified person in accordance with manufacturer specifications.
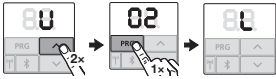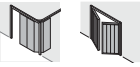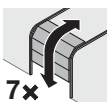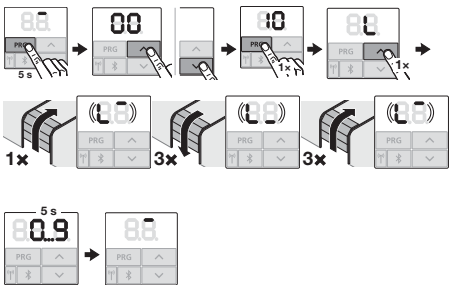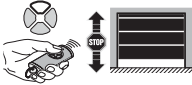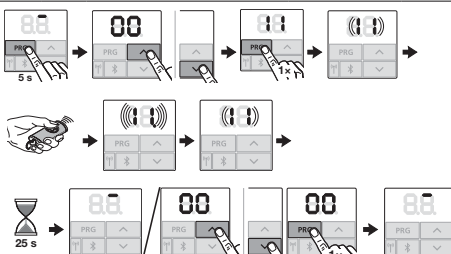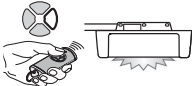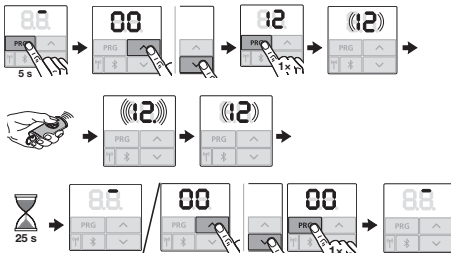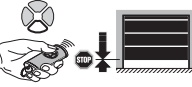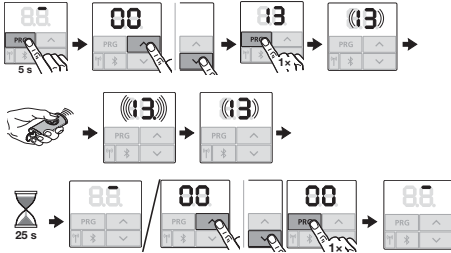
18   Operating condition display
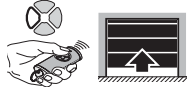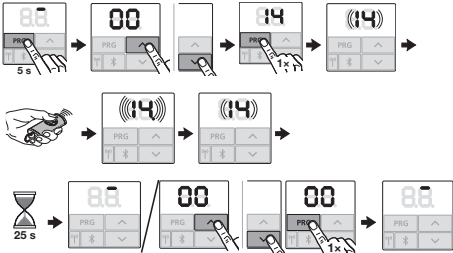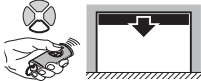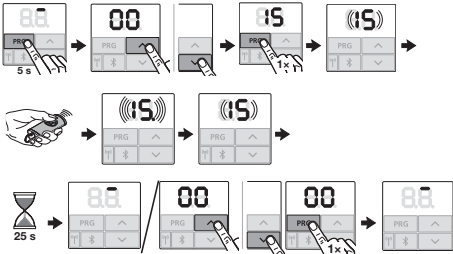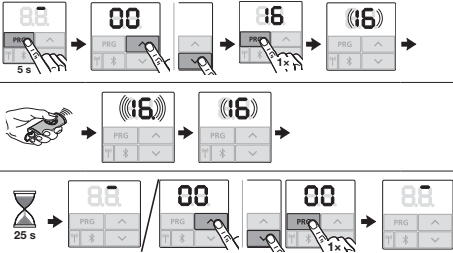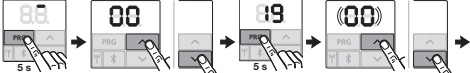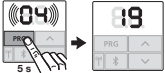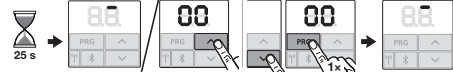
8U	The operator has not been taught in	**8L**	Learning runs are necessary
(L)	The operator performs the required learning run in the CLOSE direction	**(L)**	The operator performs the required learning run in the OPEN direction
8.8.‾	The operator is in the OPEN end-of-travel position	**8.8._**	The operator is in the CLOSE end-of-travel position
((‾))	1. The operator moves in the OPEN direction 2. The automatic timer is active	**((_))**	The operator moves in the CLOSE direction
((8‾))	1. The operator is in the OPEN end-of-travel position 2. The pre-warning phase is active	**((8_))**	1. The operator is in the CLOSE end-of-travel position 2. The pre-warning phase is active
8.‾.8.	The operator is in an intermediate position	**((‾))**	1. The operator is in an intermediate position 2. The pre-warning phase is active
8H	The operator is in the partial opening position	**H2**	The operator is in the ventilation position
((H))	The operator moves to the partial opening position 1. The operator is in the partial opening position 2. The automatic timer is active	**((H2))**	The operator moves to the ventilation position
((H))	1. The operator is in the partial opening position 2. The pre-warning phase is active	**((H2))**	1. The operator is in the ventilation position 2. The pre-warning phase is active
8.8.(•)	Impulse input from a radio code (flashes 1×) Standby (flashes continuously)	**8.8.(•)**	Sends the door position feedback to the hand transmitter (flashes 1×)
((b.5.))	Performing BUS scan		
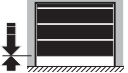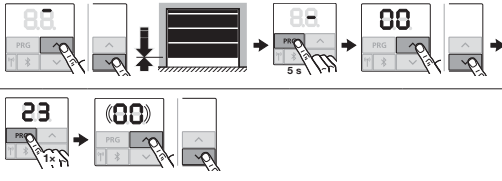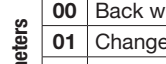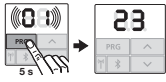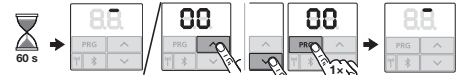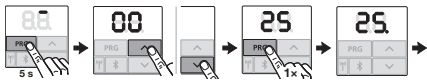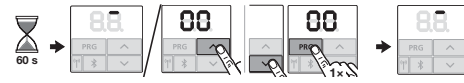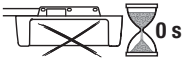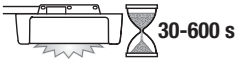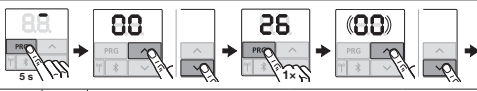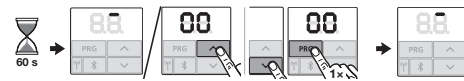
19   Menu and programming overview
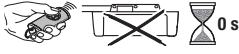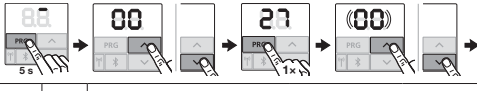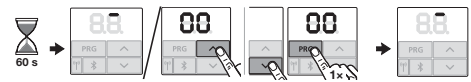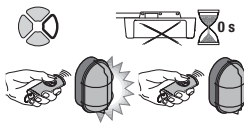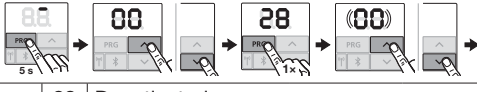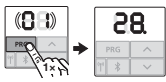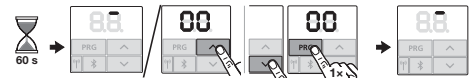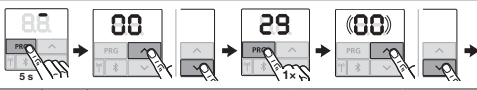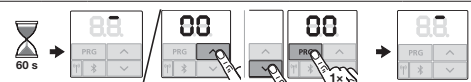
The listed factory settings 🏭 apply to **sectional doors**.

Symbol	Menu	Act	Notice
	00.		Open / exit programming mode
Selecting a door type			
(door image)	**01.**	8U → 0t → 8t (PRG button sequence 1×)	🏭

Symbol	Menu	Act		Notice
	02			Default settings such as speed, soft stop, reversing behaviour of the safety devices, reversal limit etc. are pre-set)
	03			
	04		ET 100	
	05			

Learning runs

7×	10		Learning runs after service / maintenance on or changes to the door system.

Teach-in hand transmitter
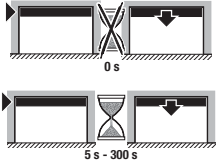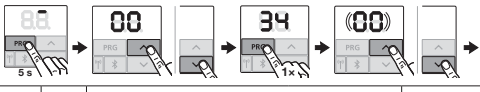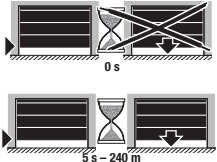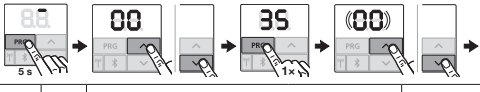
	11		Impulse
	12		Light
	13		Partial opening

Symbol	Menu	Act	Notice
	14		Choosing OPEN direction
	15		Choosing CLOSE direction
	16		All radio codes and functions are provided and taught in.

Deleting all radio codes

Symbol	Menu	Act		Notice
	19			
		Parameters	**00** Back without deleting	
			01 Radio	All hand transmitters
			02 Bluetooth®	
			03 –	
			04 All	All functions
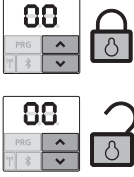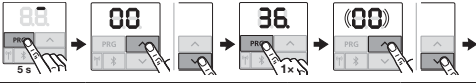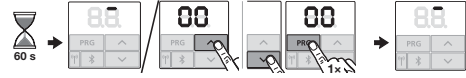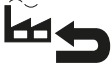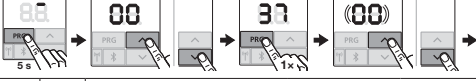
Symbol	Menu	Act		Notice
Changing the position				
	23			
		Parameters	00 Back without changing	
			01 Change partial opening position	
			02 Changing the ventilation position	Note the information in section 6.1.6
Operator light deactivated				
0 s	25			Note section 6.1.7
Illumination / illumination period (internal relay)				
0 s / 30-600 s	26	**Parameters**	00 Deactivated	
			01 30 seconds	
			02 60 seconds	
			03 120 seconds	
			04 180 seconds	
			05 300 seconds	
			06 600 seconds	

Symbol	Menu	Act	Notice
Illumination / illumination period (external relay)			
	27		e.g. hand transmitter, key switches, internal push button etc.

	00	Deactivated
Parameters	**01**	As with menu **26**
	02	60 seconds
	03	180 seconds
	04	300 seconds
	05	600 seconds

Permanent ON – external illumination			
	28		

	00	Deactivated
Parameters	**01**	Activated

Chase light			
Chase light	**29**		

	00	Deactivated
Parameters	**01**	Activated during door run
	02	Activated during start warning / advance warning
	03	Activated during door run and start warning / advance warning

Symbol	Menu	Act		Notice
		Additional functions with relay circuit board		HOR 1-HCP or UAP 1-HCP (3rd relay)
	30	Parameters		
		00	Deactivated	Menu **25** is automatically deactivated.
		01	External illumination function	No maintenance display (**In**)
		02	OPEN end-of-travel position reporting	
		03	CLOSE end-of-travel position reporting	
		04	Partial opening end-of-travel position reporting	
		05	Momentary signal at the time of OPEN or partial opening command	
		06	Error message on the display (malfunction)	
		07	Start warning / advance warning [1] permanent signal	
		08	Start warning / advance warning [1] flashing	
		09	Relay energises during travel and de-energises in the end-of-travel positions	
		10	Maintenance interval signal (display **In**)	
		11	As with menu **26**	Menu **25** is automatically deactivated. No maintenance display (**In**)

1) Advance warning only if activated in menu 32.

Symbol	Menu	Act		Notice
Pre-warning time				
	32			
		00	Deactivated	
		01	Advance warning 1 s	
		02	Advance warning 2 s	
		03	Advance warning 3 s	
		04	Advance warning 4 s	
		05	Advance warning 5 s	
		06	Advance warning 10 s	
		07	Advance warning 15 s	
		08	Advance warning 20 s	
		09	Advance warning 30 s	
		10	Advance warning 60 s	
Advance warning direction				
	33			
		00	Advance warning in the CLOSE direction	
		01	Advance warning in the OPEN and CLOSE direction	

Symbol	Menu	Act		Notice
Automatic timer – hold-open phase				**Photocell required**
	34			▶ Note the information in section 6.1.15
		00	Deactivated	
		01	Hold-open phase 5 s	
		02	Hold-open phase 10 s	Menu **32**, parameter **03** is automatically activated.
		03	Hold-open phase 15 s	
		04	Hold-open phase 30 s	
		05	Hold-open phase 60 s	
		06	Hold-open phase 90 s	
		07	Hold-open phase 120 s	
		08	Hold-open phase 180 s	
		09	Hold-open phase 240 s	
		10	Hold-open phase 300 s	
Automatic timer – partial opening				**Photocell required**
	35			▶ Note the information in section 6.1.16
		00	Deactivated	
		01	As with menu **34**	
		02	Hold-open phase 5 min	
		03	Hold-open phase 15 min	
		04	Hold-open phase 30 min	Menu **32**, parameter **03** is automatically activated.
		05	Hold-open phase 45 min	
		06	Hold-open phase 60 min	
		07	Hold-open phase 90 min	
		08	Hold-open phase 120 min	
		09	Hold-open phase 180 min	
		10	Hold-open phase 240 min	

GARADOR

Symbol	Menu	Act		Notice
Control buttons				
	36.			
		Parameters	**00** Deactivated	
			01 Activated	
Reset				
	37.			
		Parameters	**00** Back without reset	
			01 BUS scan HCP-BUS	
			02 Parameters from menu **20 – 36**	
			03 Factory reset	