

# Assembly Manual



# GEDA<sup>®</sup>

Touch Display HMI

BL2000 / MULTILIFT





## Table of contents

<b>1</b>	<b>General information</b>	<b>7</b>
1.1	Information about the Assembly Manual	7
1.2	Identification data	8
1.3	Information about the author and industrial property rights	8
1.4	Assembly, service/maintenance specialist	8
<b>2</b>	<b>Description and operation</b>	<b>9</b>
2.1	Current code list	11
2.2	Programming help section	13
2.3	Programming modes	16
2.3.1	Programming stop positions	16
2.3.2	Deleting stop positions	18
2.3.3	Setting the lifting speed	19
2.3.4	Programming stop positions (Basic)	20
2.3.4.1	Programming stop positions with the G-SAC control	20
2.3.4.2	Additional programming for the "G-ICSB" control unit	22
2.3.5	"Expert" programming mode – additional functions	23
2.3.5.1	Programming stop positions (Expert)	23
2.3.5.2	Deleting individual stop positions	24
2.3.5.3	Changing the stop position	25
2.3.5.4	Adding stop positions	26
2.3.6	Checking the car position	27
2.3.7	Fine adjustment of the car position	28
2.4	Protected section	30
2.4.1	Load display	31
2.4.1.1	Settings at the ground station	33
2.4.2	Setting date/time	34
2.4.3	Softwareupdate and Version	35
2.4.3.1	Updating the software	35
2.4.4	Options	37
2.4.5	Displaying current inputs/outputs	38
2.4.6	Display of the parameters of the frequency converter	39
2.4.7	Settings for the "Premium package option"	40
2.4.7.1	Material transport	42
2.4.8	Landing level diagnostics	43
2.4.9	Lubrication device	44
2.4.9.1	Lubrication device variant 1	44
2.4.9.2	Lubrication device variant 2	44

## Table of figures

Fig. 1: Touch display (HMI) car 1	9
Fig. 2: Touch display (HMI) car 2	10
Fig. 3: Touch display (HMI) ground station	10
Fig. 4: Code list symbol "D"	11
Fig. 5: Current CODE list	11
Fig. 6: Code list	11
Fig. 7: Password input	12
Fig. 8: Code history	12
Fig. 9: Help symbol "F"	13
Fig. 10: Help topics	13
Fig. 11: Legend	14
Fig. 12: Programming stop positions 1	14
Fig. 13: Programming stop positions 2	14
Fig. 14: Programming stop positions 3	14
Fig. 15: Programming stop positions 4	14
Fig. 16: Programming stop positions (Basic) 1	14
Fig. 17: Programming stop positions (Basic) 2	14
Fig. 18: Teaching the electric module for stop at landing level	15
Fig. 19: Deleting stop positions	15
Fig. 20: Programming stop positions (Expert) 1	15
Fig. 21: Programming stop positions (Expert) 2	15
Fig. 22: Display for assembly mode	16
Fig. 23: Key switch in programming mode	16
Fig. 24: "Basic" programming mode	17
Fig. 25: Deleting stop positions	18
Fig. 26: Setting the lifting speed	19
Fig. 27: Assigning electric modules	22
Fig. 28: Assigning electric modules	22
Fig. 29: "Expert" programming mode	23
Fig. 30: Checking car position 1	27
Fig. 31: Checking car position 2	27
Fig. 32: Fine adjustment of car position 1	28
Fig. 33: Fine adjustment of car position 2	29
Fig. 34: Overview – protected area	31
Fig. 35: Overview of load display	31
Fig. 36: Pop-up window for setting the load in the car	32
Fig. 37: Setting the load at the ground station	33
Fig. 38: Changing date/time	34
Fig. 39: Keypad	34
Fig. 40: Viewing the version	35
Fig. 41: Update	35
Fig. 42: Downloading log files 1	36
Fig. 43: Downloading log files 2	36
Fig. 44: Options	37
Fig. 45: Example for display of car inputs/outputs	38
Fig. 46: Example for display of car roof inputs/outputs	38
Fig. 47: Display of frequency converter parameters	39

Fig. 48: Display of frequency converter parameters 2	39
Fig. 49: Premium package 1	40
Fig. 50: Options 2	41
Fig. 51: Material transport	42
Fig. 52: Operating display for material transport	42
Fig. 53: Display of material transport at ground station	42
Fig. 54: Overview of landing level function statuses	43
Fig. 55: Lubrication device variant 1 (automatic mode)	44
Fig. 56: Lubrication device (automatic mode)	44
Fig. 57: Lubrication device (assembly mode)	45



# 1 General information

## 1.1 Information about the Assembly Manual

You will come across a series of illustrations and symbols while reading this manual. These are intended to help you navigate and understand this manual. The different meanings are explained below.

Text format	Meaning
<b>Bold type</b>	Emphasises particularly important words/sections
• List	Identifies lists level 1
– List	Identifies lists level 2
(brackets)	Item numbers
➤ Task instruction	Task instructions for personnel. Always given in chronological order

### Images

The illustrations used refer to a specific machine type. They may only constitute a schematic representation of other machine types. The fundamental function and operation are not affected by this.

The structural elements in this operating manual appear as follows and have the following meaning:

## 1.2 Identification data

The touch display described in this manual is used in various different GEDA hoists.

Depending on the type of hoist or the design of the hoist, the display or the description of functions may vary.

Documentation version: 2021-07

## 1.3 Information about the author and industrial property rights

All documents are protected within the terms of the copyright law. Dissemination and reproduction of documents (including parts thereof), as well as reuse or disclosure of their contents, are prohibited unless expressly permitted in writing.

The copyright and conditions of use of any software/user documentation from other manufacturers that may be included within the scope of delivery must be observed.

Violations are an offence and incur an obligation to pay compensation. All rights to exercise industrial property rights are reserved by GEDA.

## 1.4 Assembly, service/maintenance specialist

### Persons authorised to carry out assembly tasks

A person who, due to qualified professional education, training and experience, is able to recognise risks and potential hazards during assembly/maintenance/repair work on the machine and subcomponents and can rectify these by introducing appropriate measures.



## 2 Description and operation

This manual describes the functions and control elements that require you to enter a password on the touch display.  
Restricted access group (assembly/maintenance).

The text elements in the figures is shown in English. All text elements are displayed on the touch panel in the selected language.

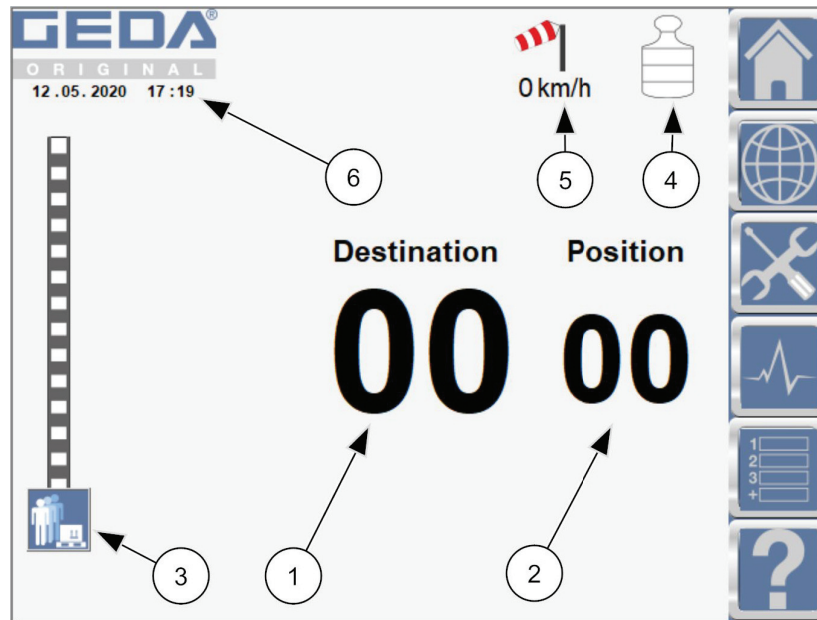
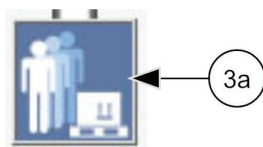
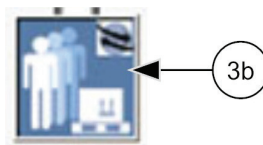


Fig. 1: Touch display (HMI) car 1

- |                                   |                         |
|-----------------------------------|-------------------------|
| 1 Destination                     | 4 Load indicator        |
| 2 Current car position            | 5 Wind force (optional) |
| 3 Current position of car on mast | 6 Date/time display     |



3a Symbol: Hoist without remote service



3b Symbol: Hoist with remote service



Fig. 2: Touch display (HMI) car 2

- |   |                    |   |                       |
|---|--------------------|---|-----------------------|
| A | HOME               | D | Current code list     |
| B | Language selection | E | Landing level details |
| C | Operating data     | F | Help                  |

**Touch display at the ground station (option)**

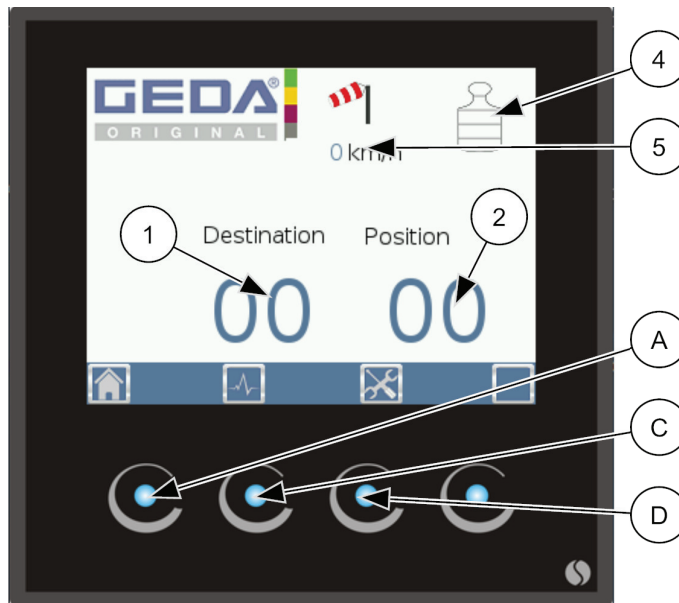


Fig. 3: Touch display (HMI) ground station

- |   |                      |   |                   |
|---|----------------------|---|-------------------|
| 1 | Destination          | A | HOME              |
| 2 | Current car position | C | Current code list |
| 3 | Load indicator       | D | Maintenance       |
| 4 | Wind force (option)  |   |                   |

## 2.1 Current code list

Display of the current code list

- Tap the symbol (D).



Fig. 4: Code list symbol "D"

- ✓ Only the currently pending codes are displayed.



Fig. 5: Current CODE list

### Display of the code history

- Tap the symbol (11).

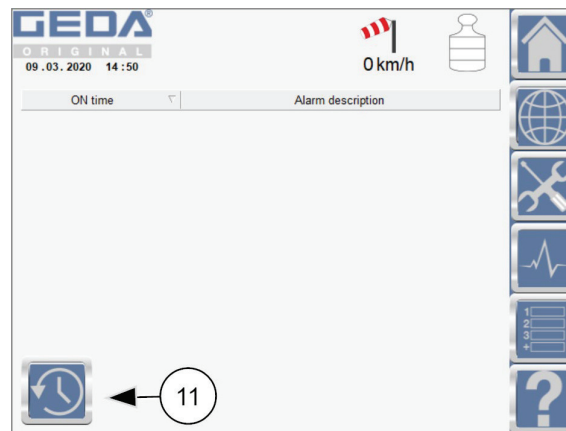


Fig. 6: Code list

- Enter login.
- Password (name):  
86663
- Confirm with "OK".

Fig. 7: Password input

- ✓ The codes for at least the last 180 days are displayed.

Fig. 8: Code history

## 2.2 Programming help section

- Tap the help symbol (F).

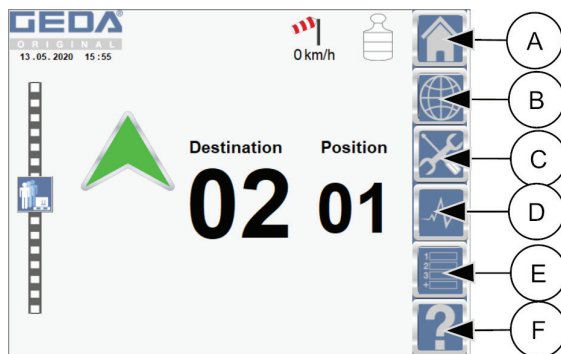


Fig. 9: Help symbol "F"

- A menu overview for which "Help" is available is displayed.
- Tap the field for which you need help.



Fig. 10: Help topics

- The work steps are shown in sequence.
- ✓ When a step has been completed successfully, it is shown with a green background.

### Legend

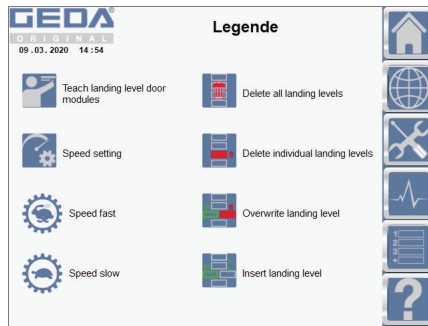


Fig. 11: Legend

### Programming stop positions



Fig. 12: Programming stop positions 1



Fig. 13: Programming stop positions 2



Fig. 14: Programming stop positions 3

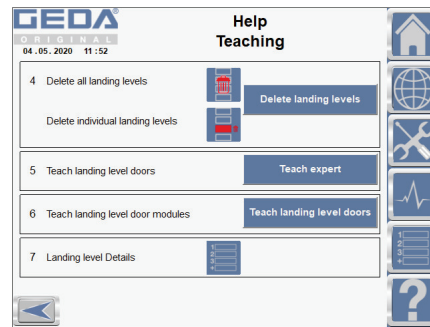


Fig. 15: Programming stop positions 4

### Programming stop positions (Basic)

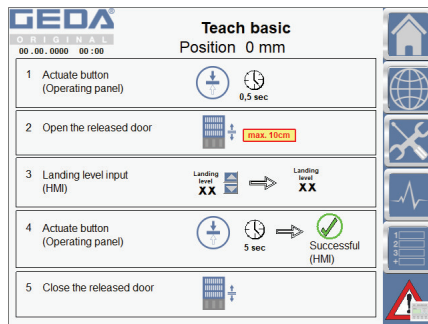


Fig. 16: Programming stop positions (Basic) 1

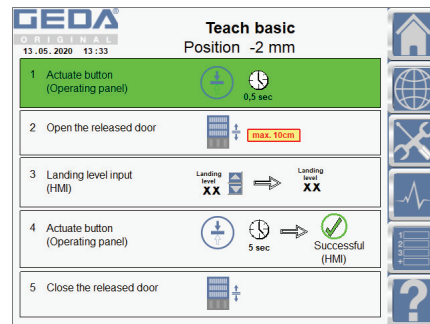


Fig. 17: Programming stop positions (Basic) 2

### Teaching the electric module at the stop positions

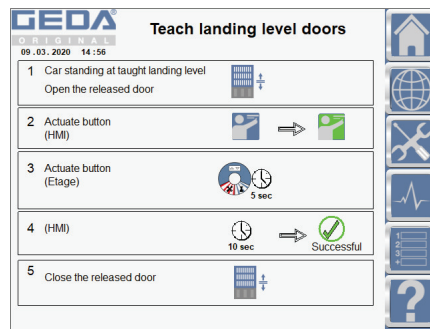


Fig. 18: Teaching the electric module for stop at landing level

### Deleting stop positions

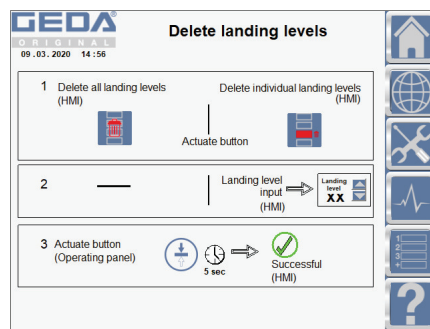


Fig. 19: Deleting stop positions

### Programming stop positions (Expert)

Shown for hoists with the "Premium package" option.

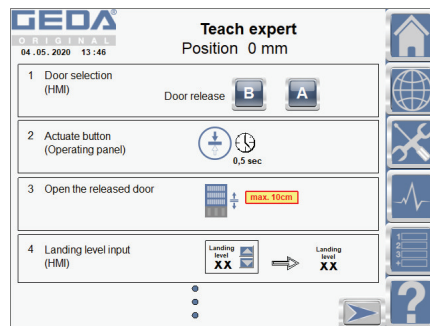


Fig. 20: Programming stop positions (Expert) 1

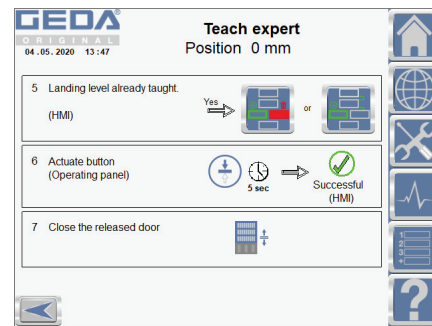


Fig. 21: Programming stop positions (Expert) 2

## 2.3 Programming modes

### 2.3.1 Programming stop positions

The assembly control remains connected.

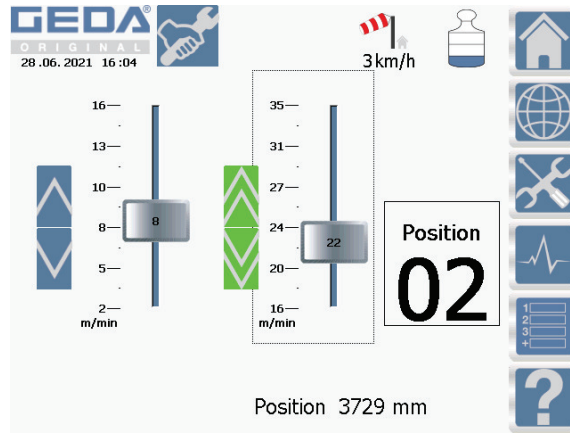


Fig. 22: Display for assembly mode

- Open the roof switch box.
- Turn the "Teach" key switch to the "On" position.



Fig. 23: Key switch in programming mode

→ The STOP AT LANDING LEVEL button (50) flashes slowly.





- ✓ The touch display automatically switches to "Basic" programming mode.

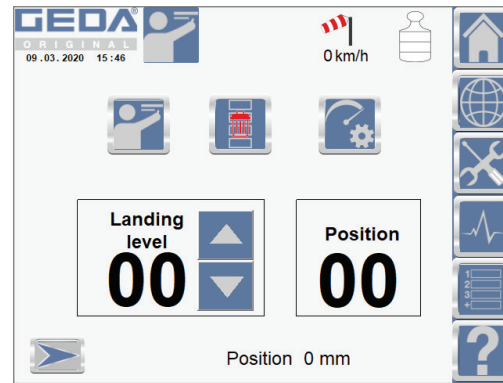


Fig. 24: "Basic" programming mode



With the Premium package, the touch display switches to "Expert" programming mode.

### 2.3.2 Deleting stop positions



To prevent incorrectly programmed landing level positions (stop positions) when using the hoist at different locations, the landing positions must be deleted before every new installation!

- Tap the symbol (41).
  - ✓ The symbol lights up green as confirmation.

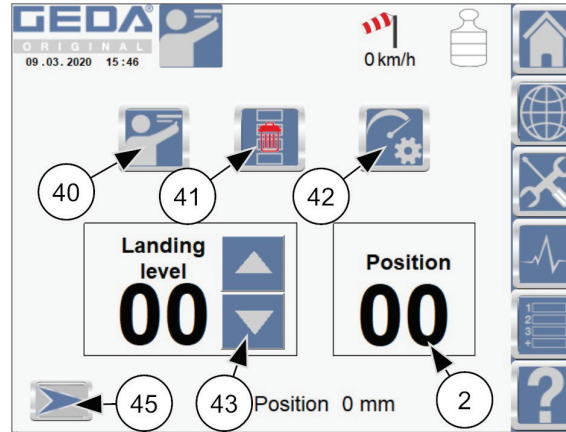


Fig. 25: Deleting stop positions

- Press the STOP AT LANDING LEVEL button (50) for 5 seconds.
  - As confirmation, the STOP AT LANDING LEVEL button flashes faster.



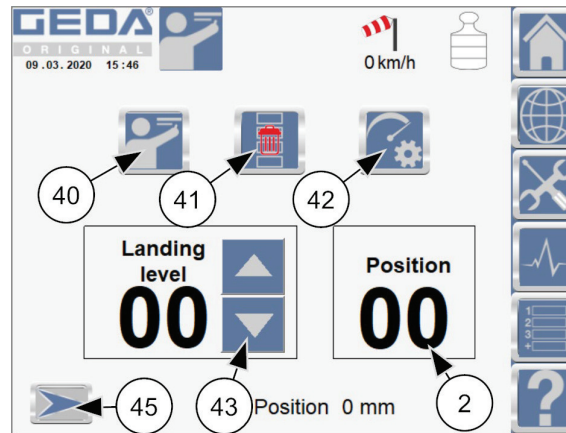
- ✓ All programmed stop positions have now been deleted!

A ✓ is shown on the touch display.

### 2.3.3 Setting the lifting speed

The lifting speed can be adjusted for precise positioning of the car at the stop position.

- Tap the symbol (42).



- The lifting speed for the slow level can be adjusted with the slider (31).
- The lifting speed for the fast level can be adjusted with the slider (32).

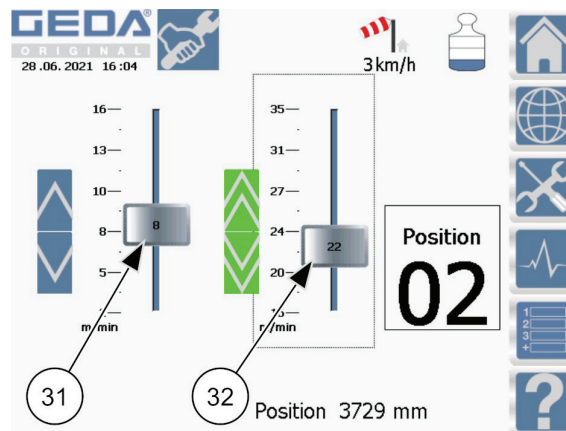


Fig. 26: Setting the lifting speed

## 2.3.4 Programming stop positions (Basic)

### 2.3.4.1 Programming stop positions with the G-SAC control

[single automatic control]



**A landing level safety gate first has to be installed at the stop position!**

- Travel to the first landing level (stop position) using the assembly control and position it there precisely aligned with the landing level safety gate.



**The car floor and the sill of the landing level safety gate must be at exactly the same level! (Tolerance  $\pm 1$  cm)**

- Briefly press the STOP AT LANDING LEVEL button (50).



**The car door on the "B side" of the car is programmed by default as "Access to building" on this control unit.**

Open the car door at the landing level safety gate approx. 10 – 20 cm within the next 5 seconds.

Check whether the landing level safety gate is in front of the slightly open car door.

## ⚠ DANGER



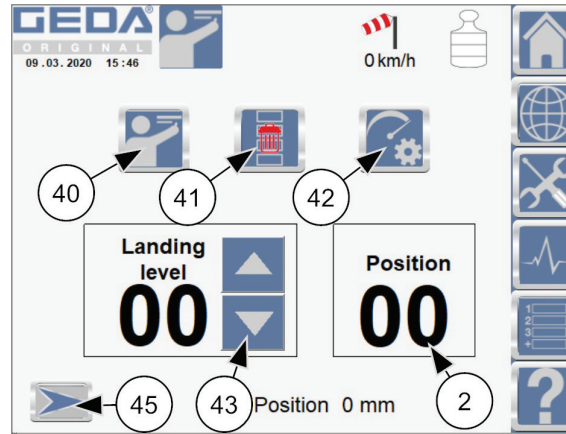
### Lethal hazard – fall from the car

- Never open the car door by more than approx. 20 cm during programming.



**The STOP AT LANDING LEVEL button (50) has to be pressed again if the car door is not opened within 5 seconds.**

2 Car position



- 43 Setting landing levels:  
 UP button: Preselect landing levels 1 to 9 (11 – 19, 21 – 29, ...)  
 DOWN button: back from landing levels 9 to 0 (19 – 10, 29 – 20, ...)  
 Max. 99 landing levels

- Press the STOP AT LANDING LEVEL button (50) for approx. 5 seconds until a ✓ appears on the touch display.
- Release the button again.  
 → As confirmation, the STOP AT LANDING LEVEL button flashes faster.



A ✓ is shown on the touch display.

- Close the open car door again.  
 ✓ This completes programming of this stop position.



**Program the other landing levels as described.**

**Checks after programming**

- Did the car stop at the selected stop position?
- Is the floor of the car at the same level as the landing level (sill of the landing level safety gate)?



**Carry out a function test at each stop position. The landing level position can also be programmed to correct individual stop positions.**

### 2.3.4.2 Additional programming for the "G-ICSB" control unit [intelligent call system]

The stop positions are programmed on this control unit as described in chapter 2.3.4.1 Programming stop positions with the G-SAC control.

The "G-ICSB" control unit has electric modules with call control at the landing level safety gates. These electric modules have to be assigned to the programmed stop positions.

#### "Basic" programming mode

- Tap the symbol (40).
  - ✓ The symbol lights up green as confirmation.

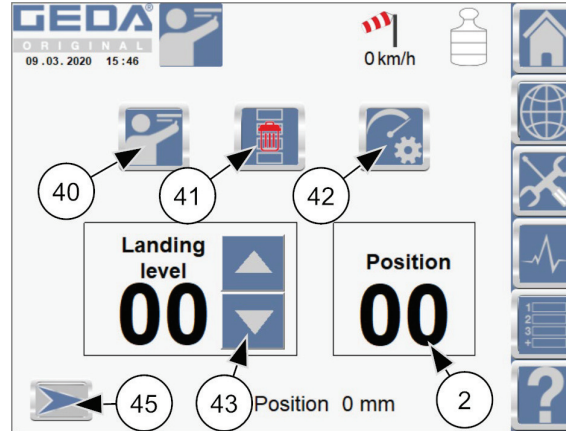


Fig. 27: Assigning electric modules

#### Electric module with call control

The call control button (60) flashes on all installed electric modules.

#### Start ID search

- Press the CALL button for 5 seconds.
- Release the button as soon as the flashing sequence of the CALL button changes.



Fig. 28: Assigning electric modules

The button flashes for 6 seconds during the ID search.

After a two second pause, the button flashes the new electric module ID.

After teaching the electric module, the buttons at the stop positions stop flashing and the button (40) on the touch display starts flashing green.

A ✓ is shown on the touch display.

Programming has been successfully completed and the button on the touch display turns blue.

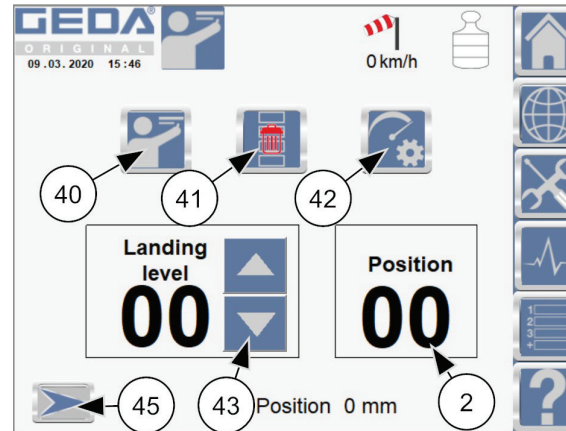
## 2.3.5 "Expert" programming mode – additional functions

### 2.3.5.1 Programming stop positions (Expert)



This chapter only applies to hoists with the "Premium package" option.

- Tap the arrow symbol (45).
  - ✓ The display changes to "Expert" programming mode.



The arrow symbol is shown only for hoists with "Expert" programming mode.

This offers the option of changing between the "Basic" and "Expert" programming modes.

Tap "A" and/or "B" (49) to select the desired car door.

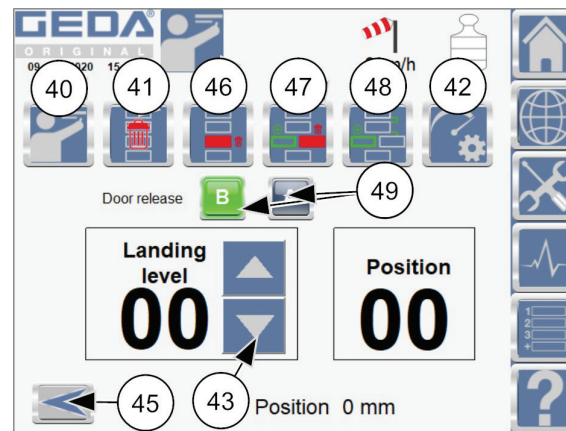


Fig. 29: "Expert" programming mode

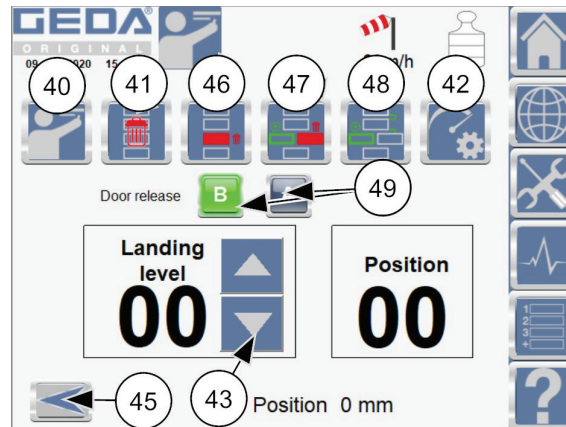
- 40 Assign button for electric modules. Refer to chapter 2.3.4.2 Additional programming for the "G-ICSB" control unit
- 41 Delete button for stop positions. Refer to chapter 2.3.2 Deleting stop positions
- 43 Buttons for entering the landing level number. Refer to chapter 2.3.4.1 Programming stop positions with the G-SAC control



Programming of the stop positions can be continued after selecting the car door. The car door can be selected for every stop position and "Expert" programming mode therefore remains active until programming of the stop positions has been completed.

### 2.3.5.2 Deleting individual stop positions

- Use the arrow symbols (43) to select the stop position to be deleted.
- Tap the symbol (46).
- ✓ The button lights up green to confirm the selection.



- Press the STOP AT LANDING LEVEL button (50) for 5 seconds.
  - As confirmation, the STOP AT LANDING LEVEL button flashes faster.



A ✓ is shown on the touch display.



### 2.3.5.3 Changing the stop position



**A landing level safety gate first has to be installed at the stop position!**

- Travel to the new stop position using the assembly control and position it there precisely aligned with the landing level safety gate.
- Tap the symbol (47).
  - The button lights up green to confirm the selection.
- Briefly press the STOP AT LANDING LEVEL button (50).

Open the car door at the landing level safety gate approx. 10 – 20 cm within the next 5 seconds.

Check whether the landing level safety gate is in front of the slightly open car door.

<b>⚠ DANGER</b>	
	<p><b>Lethal hazard – fall from the car</b></p> <ul style="list-style-type: none"> <li>➤ Never open the car door by more than approx. 20 cm during programming.</li> </ul>



**The STOP AT LANDING LEVEL button (50) has to be pressed again if the car door is not opened within 5 seconds.**

- Press the STOP AT LANDING LEVEL button (50) for approx. 5 seconds until a ✓ appears on the touch display.
- Release the button again.
  - As confirmation, the STOP AT LANDING LEVEL button flashes faster.



A ✓ is shown on the touch display.

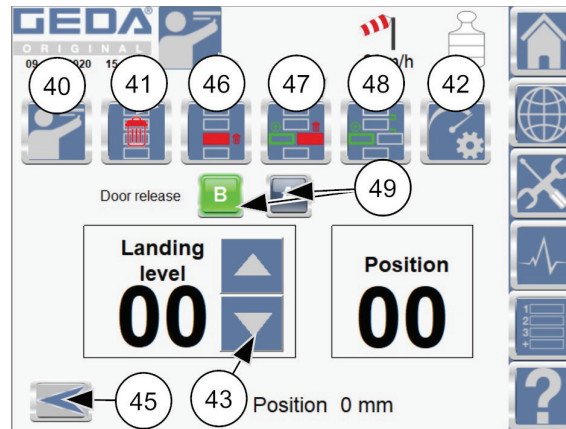
- Close the open car door again.
  - ✓ This completes programming of this stop position.



**Program the other landing levels as described.**

### 2.3.5.4 Adding stop positions

- Use the arrow symbols (43) to select the new stop position.
- Tap the symbol (48).
  - ✓ The button lights up green to confirm the selection.



- Press the STOP AT LANDING LEVEL button (50) for approx. 5 seconds until a ✓ appears on the touch display.
- Release the button again.
  - As confirmation, the STOP AT LANDING LEVEL button flashes faster.



A ✓ is shown on the touch display.



A landing level safety gate also had to be installed for the new stop position. The electric module on the landing level safety gate (call control) has to be assigned to the new stop position. Refer to chapter 2.3.4.2 Additional programming for the "G-ICSB" control unit

The stop positions above will automatically be increased by one landing level number.

### 2.3.6 Checking the car position

The parameters of the programming can be checked after programming the stop positions.

- Tap the "Landing level details" symbol (E).

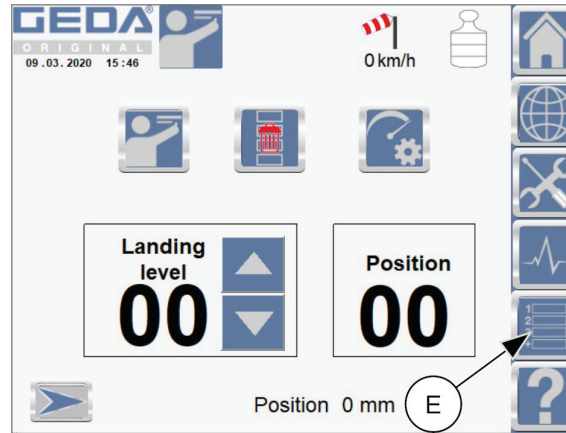


Fig. 30: Checking car position 1

- ✓ The information for the first 9 landing levels (if available) is displayed.

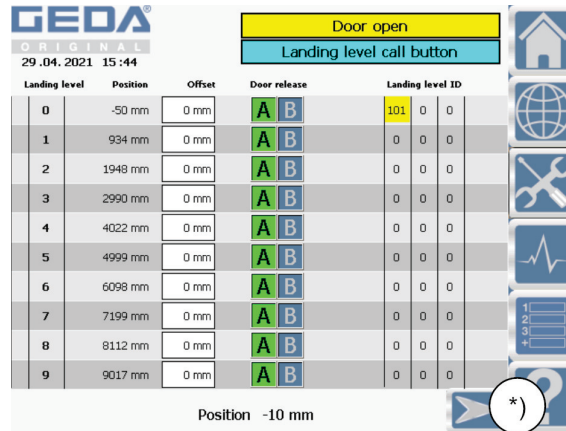


Fig. 31: Checking car position 2

#### Display:

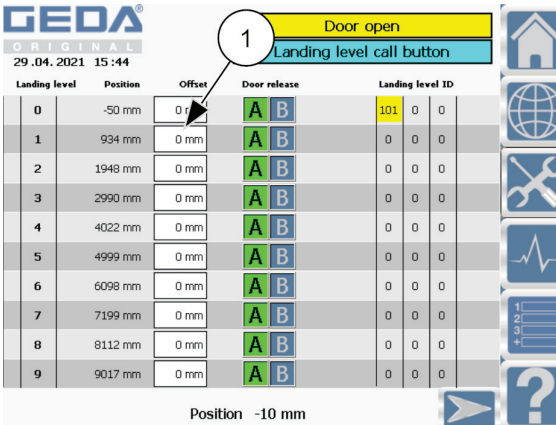
Landing level no. 0, 1, 2, ...	Position in mm	Offset (fine adjustment) in mm	Released car door (for the landing level)	Landing level ID (only for call control) Assigning the electric module
-----------------------------------	----------------	--------------------------------	---	---



The fine adjustment can only be made in the password-protected area.

### 2.3.7 Fine adjustment of the car position

- Tap directly on the "Offset" value, e.g. for landing level 1 (1).

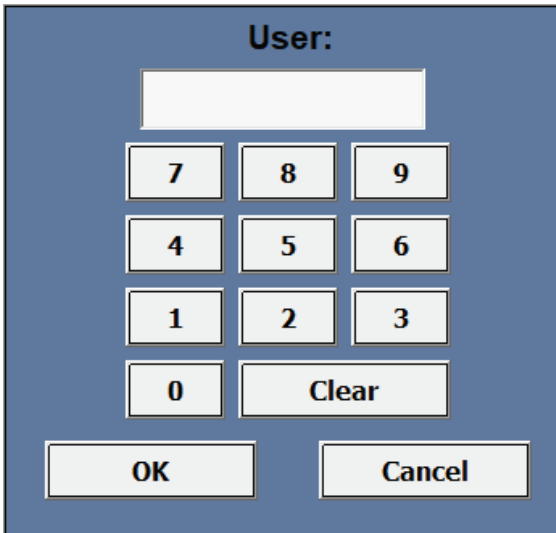


Landing level	Position	Offset	Door release	Landing level ID
0	-50 mm	0 mm	A B	101 0 0
1	934 mm	0 mm	A B	0 0 0
2	1948 mm	0 mm	A B	0 0 0
3	2990 mm	0 mm	A B	0 0 0
4	4022 mm	0 mm	A B	0 0 0
5	4999 mm	0 mm	A B	0 0 0
6	6098 mm	0 mm	A B	0 0 0
7	7199 mm	0 mm	A B	0 0 0
8	8112 mm	0 mm	A B	0 0 0
9	9017 mm	0 mm	A B	0 0 0

Position -10 mm

Fig. 32: Fine adjustment of car position 1

- Enter login.
- Password (name): 86663
- Confirm with "OK".



User:

86663

7 8 9

4 5 6

1 2 3

0 Clear

OK Cancel

Fine adjustment of car position 1



After one minute without any input in the menu selection, the touch display automatically returns to the operating display.

- Measure the height difference between the floor of the car and the sill of the landing level safety gate and correct this value in the input field if required.

Correction value =  $\pm 50$  mm

Low Limit: 0  
High Limit: 0  
Current Val: 000  
Value: 000

7	8	9	▲
4	5	6	▼
1	2	3	
+/-	0	.	

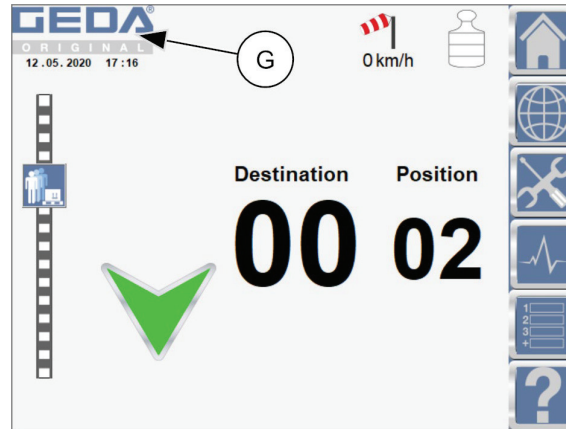
Clear

OK Cancel

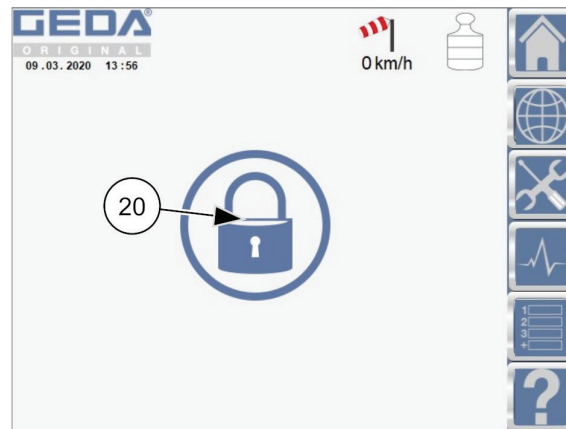
Fig. 33: Fine adjustment of car position 2

## 2.4 Protected section

- Tap the GEDA logo (G).



- Tap the symbol (20).



- Enter login.
- Password (name): 86663
- Confirm with "OK".

User:

7	8	9
4	5	6
1	2	3
0	Clear	

OK

Cancel



**After one minute without any input in the menu selection, the touch display automatically returns to the operating display.**

- ✓ The menu overview is displayed.

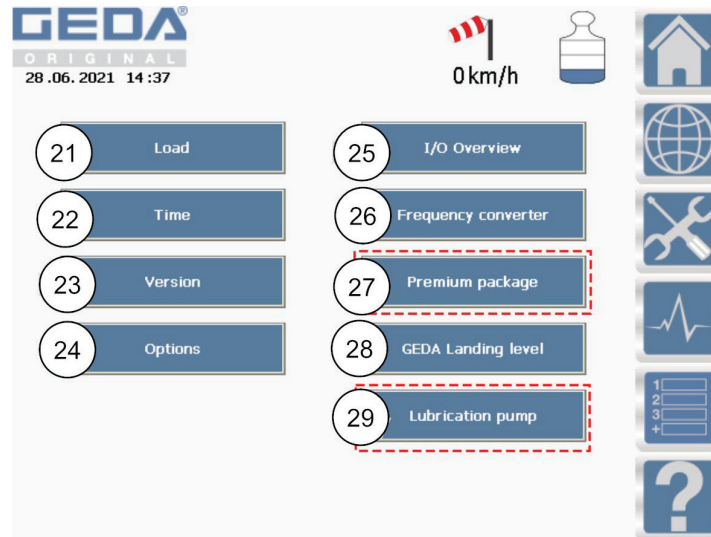


Fig. 34: Overview – protected area

27 Only displayed if the "Premium package" has been selected as an option

### 2.4.1 Load display

After installation of the hoist and accessories (assembly crane, etc), the tare weight of the car can be set to "0".

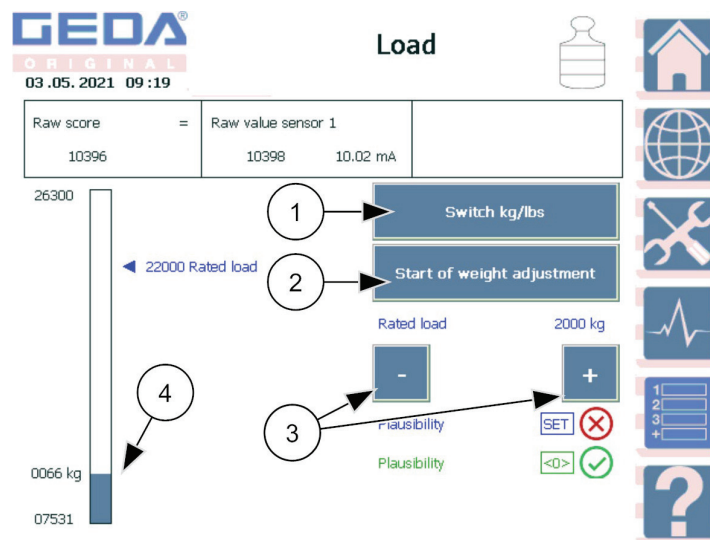


Fig. 35: Overview of load display

- 1 Switch weight units (kg/lbs)
- 2 Start load adjustment
- 3 Set nominal load
- 4 Load display

The bar shows the current weight. The bar colour is dynamic. The current weight is shown in kg or lbs to the left of this.



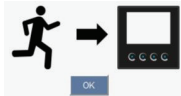
Installing additional equipment (e.g. additional floor covering made of steel/aluminium) increases the tare weight. This reduces the load capacity of the car accordingly.

Prerequisite:

**Only the operator is in the car!**

### Starting the load adjustment

- Tap the field (2).
- "Start load adjustment" is active and the field turns green.



**This display appears.**

**The setting process has to be continued on the touch display at the ground station!**

For settings, please refer to chapter 2.4.1.1 Settings at the ground station

- For hoists that do not have a touch display at the ground station, a pop-up window is displayed for the adjustment.

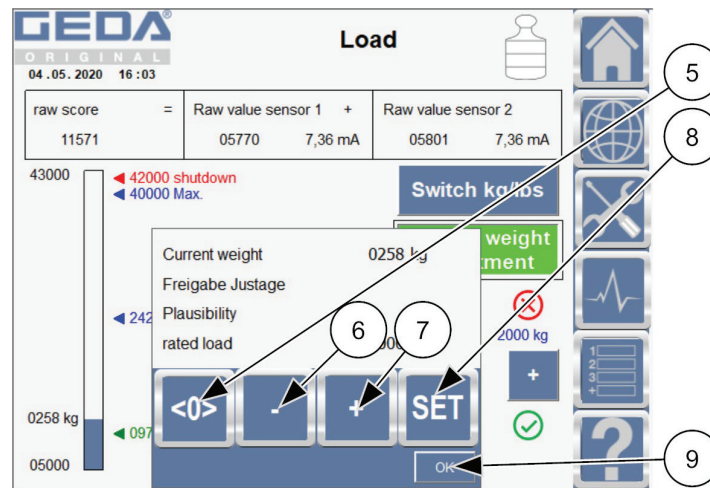


Fig. 36: Pop-up window for setting the load in the car

Prerequisite:

**Only the operator is in the car!**

### Setting the tare weight of the car to "0"

- Tap the field (5).

### Setting the nominal load

- Load the car to the nominal load.
  - The operator is in the car with the nominal load.
- Use "-" and "+" (6, 7) to set the weight limit.
- Confirm the input by tapping the field (8).
- Press "OK" (9) to exit the input window.



### 2.4.1.1 Settings at the ground station

- Go to the ground station and make the other settings on the control unit there.



Fig. 37: Setting the load at the ground station

#### Prerequisite:

The car is empty!

#### **Setting the tare weight of the car to “0”**

After installation of the hoist and the accessories (e.g. assembly crane, etc), the tare weight of the car can be set to "0".

- Press the button (5).
  - The button lights up if the conditions "Enable", "Adjustment" and "Plausibility" are in place.

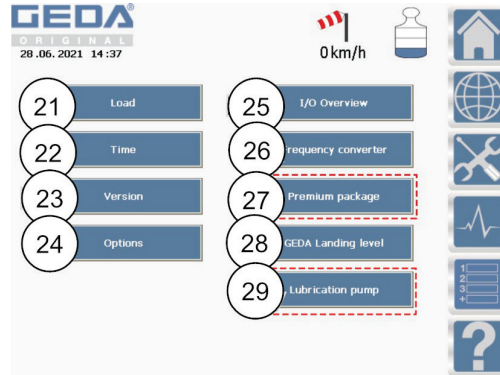
#### **Setting the nominal load**

- Load the car to the nominal load.
- Use "-" and "+" (6, 7) to set the weight limit.
  - If an input limit is reached, the LED for the respective button goes out. It is shown accordingly with max. or min.
- Confirm the input by tapping the field (8).

## 2.4.2 Setting date/time

The display of the date and time underneath the GEDA logo can be changed to the local time. Date and time are changed in the PLC, on the touch display and on the frequency converter (FC).

- Tap the field (22).



### Entering/changing time and date

- Tap on the corresponding input field.

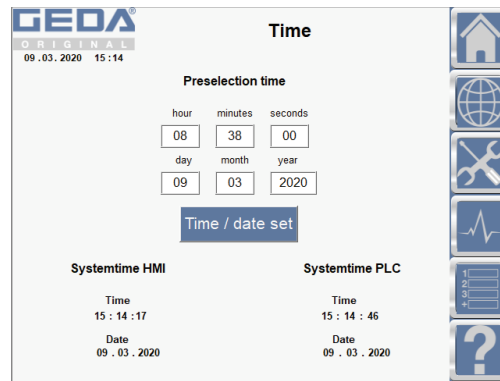


Fig. 38: Changing date/time

- Enter the value on the keypad that is displayed and confirm with "OK".  
→ Repeat for all input fields.

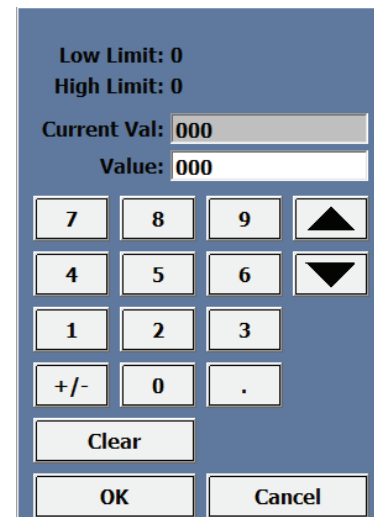


Fig. 39: Keypad



The time is controlled by the PLC. This means the PLC synchronizes the time on the touch display and on the frequency converter.

### 2.4.3 Softwareupdate and Version

#### Viewing the software version

- Tap the field (23).

→ The software version for the current hardware is displayed.

- Tap the field (a).

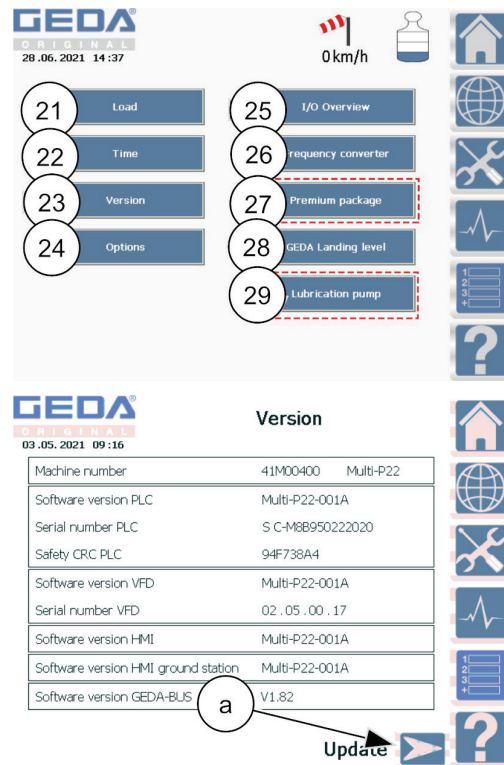


Fig. 40: Viewing the version

PLC Programmable logic control

HMI Human machine interface (touch display)

VFD Variable frequency drive (frequency converter)

#### 2.4.3.1 Updating the software

##### Saving the settings

- Tap the corresponding field to transfer the settings on the PLC to the touch display (HMI) (a) and from the HMI to the PLC (b).

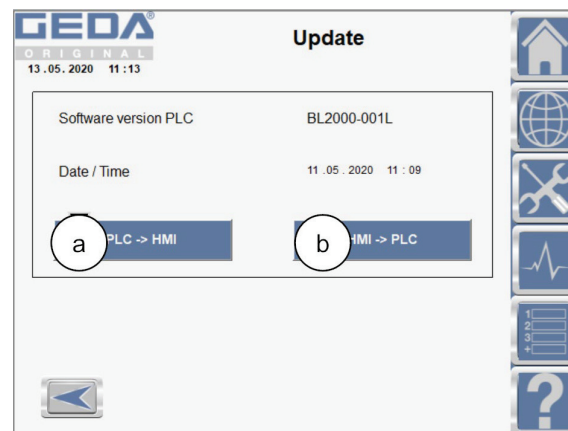


Fig. 41: Update

If the PLC has been replaced or updated, the settings (e.g. for the Premium package or the load) no longer have to be carried out.

### Downloading log files

The log files are stored in the directory MMCMemory\GEDA on the touch display.

- Codes – Alarm history CSV file
  - Logger – data logger CSV file
  - Parameter – set values CSV file
    - Premium package number ...
    - Load settings
- Tap the field (c) to save the log files to a USB storage medium.

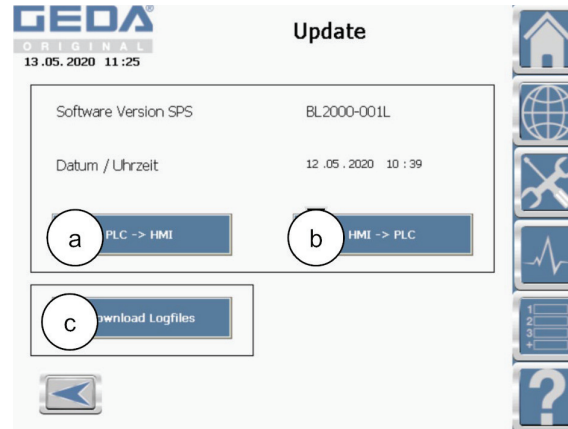


Fig. 42: Downloading log files 1

### Software update for touch display (HMI)

The software for the touch display can be updated with a USB storage medium.

- Connect the storage medium to the touch display.
- The field (d) is shown.

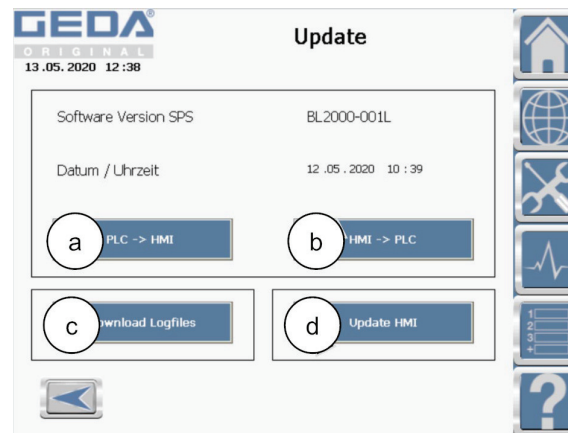


Fig. 43: Downloading log files 2

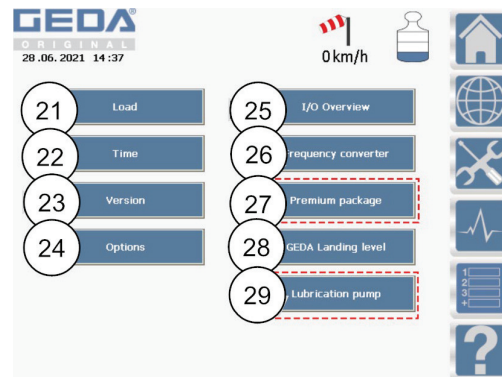


An update is carried out only if a directory "AutoUpdate" with the data is available on the storage medium.

## 2.4.4 Options

### Viewing/changing options

- Tap the field (24).



Subsequently configured options can be selected here.

### Add on Premium package

- Enter the package number in the field (a).
- ✓ This enables the settings for the Premium package.

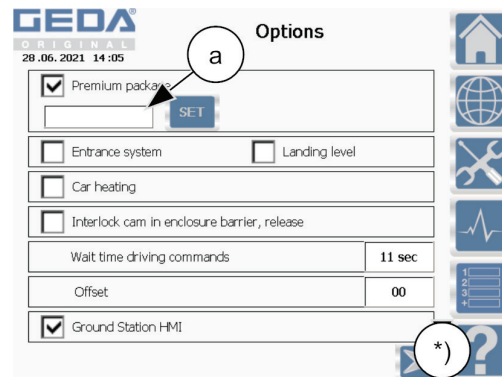


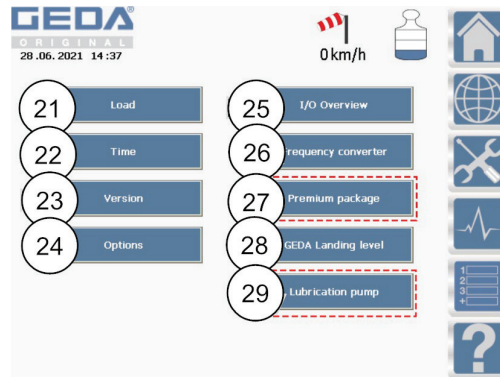
Fig. 44: Options

The Premium package can contain the following, for example:

- Homing – wind speed
- Homing – time setting
- Material transport between two defined stop positions (landing levels)
- "Expert" programming mode
- Remote service

## 2.4.5 Displaying current inputs/outputs

- Tap the field (25).



- ✓ The current inputs and outputs for the control in the switch box for the car control are displayed.

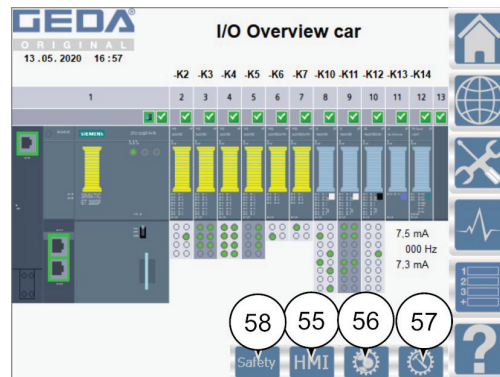


Fig. 45: Example for display of car inputs/outputs

- 55 Display of HMI system variables
- 56 Display of the signals (technological)
- 57 Display of the individual assemblies with description of the signals
- 58 Display of the EMERGENCY STOP line



**For some machine types, this information can also be displayed for the switch box on the car roof.**

- Tap the symbol (59).
- ✓ The display changes between the car and car roof switch box.

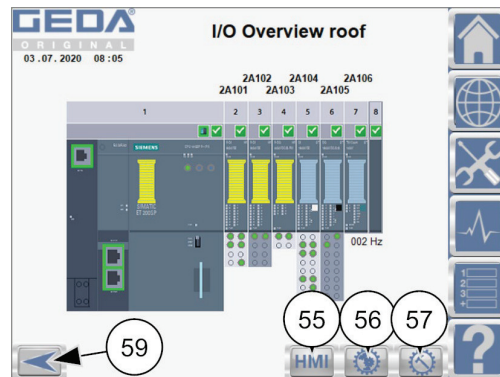
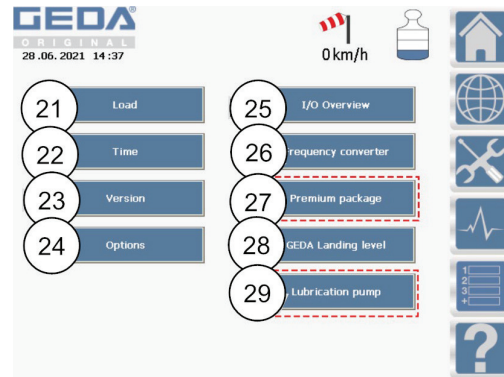


Fig. 46: Example for display of car roof inputs/outputs

### 2.4.6 Display of the parameters of the frequency converter

➤ Tap the field (26).



✓ The parameters for the frequency converter are displayed.

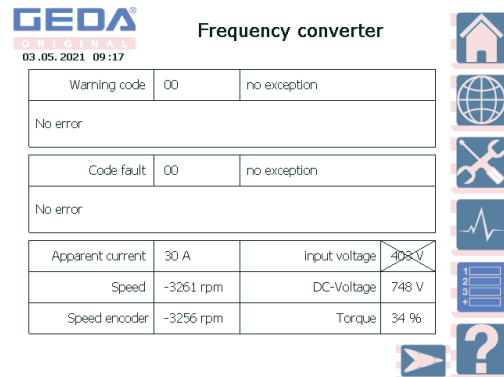


Fig. 47: Display of frequency converter parameters



The input voltage is shown only when the hoist is not moving.

✓ Other parameters for the frequency converter are displayed.

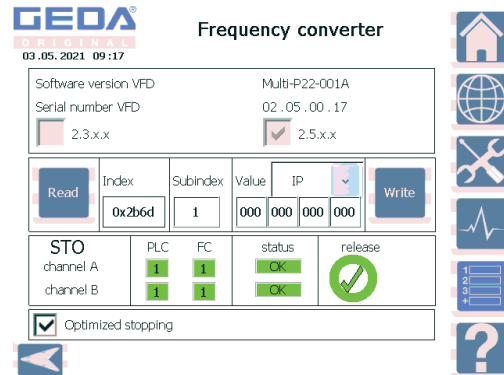
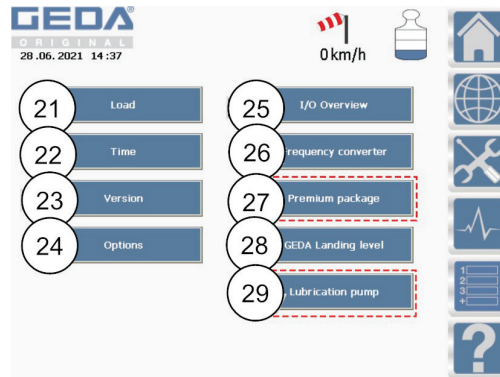


Fig. 48: Display of frequency converter parameters 2

## 2.4.7 Settings for the "Premium package option"

- Tap the field (27).  
✓



- ✓ The options in the "Premium package" are shown.

### Activating an option

- Tap the desired option.  
✓ This activates the option and displays a ✓.

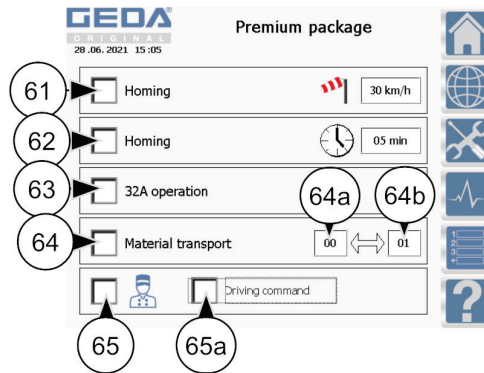


Fig. 49: Premium package 1

65 Operating options for "Liftboy" mode  
a

- 61 Wind speed setting at which the hoist has to move to the ground station. A 🏠 is shown next to the windspeed in the operating display.
- 62 If the hoist is not used for the number of minutes entered here, it moves to the ground station. A 🏠 is shown next to the time in the operating display.
- 63 The hoist is operated in 32 A mode. The travelling speed is reduced, and the load capacity may be reduced.
- 64 Material transport between two defined stop positions.
- 65 Activate "Liftboy" mode.

### Operating options

65a Driving command  
Driving command

When the button is deactivated, driving commands can only be processed via the keypad or rotary/push button. Operation by tapping on the touch display is not possible.



**Setting options**

- Enter the desired value on the keypad that is displayed and confirm with "OK".

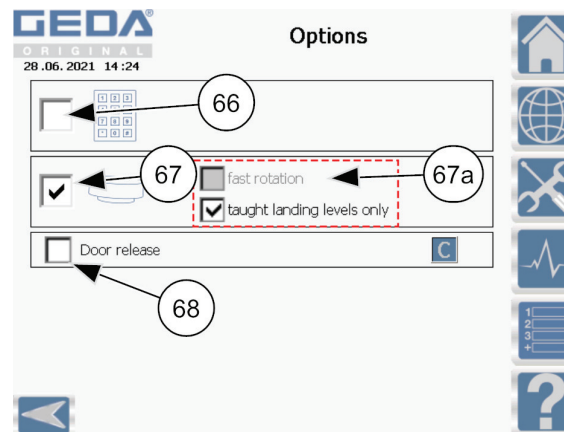
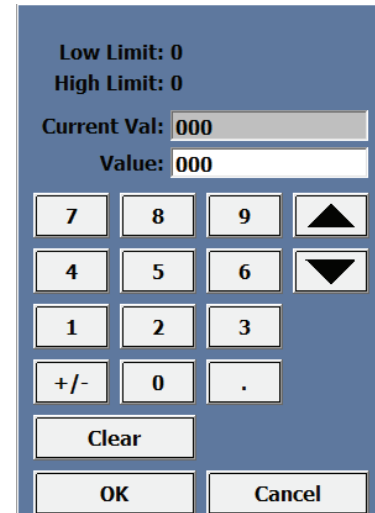


Fig. 50: Options 2

67 Operating options with rotary/push button a

- 66 The car control is a keypad
- 67 The car control is a rotary/push button
- 68 Door release for a door on the C-side of the car. (Not possible for every type of hoist!)

**Operating options**

- 67a Fast rotation  
Fast rotation  
The landing level numbers are increased and decreased faster on the display.
- Taught landing levels only  
Only the programmed landing levels are displayed.
- Taught landing levels only

### 2.4.7.1 Material transport

- Activate material transport (1) and enter the landing level numbers (2).

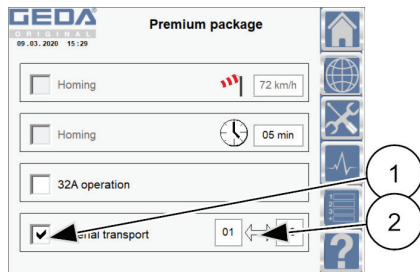


Fig. 51: Material transport

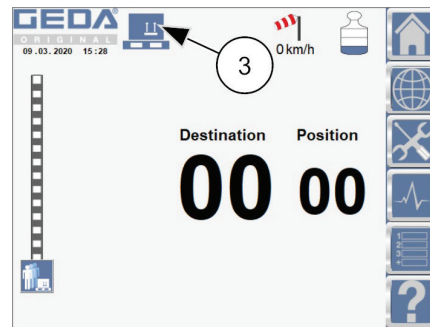


Fig. 52: Operating display for material transport

#### Example for material transport between landing levels 1 and 3



**Only landing level modules 1 and 3 are activated. All others are flashing and deactivated.**

- Load the hoist at landing level 1, close the door and press the button on the landing level module.
  - The button lights up and the hoist moves to landing level 3.
- Unload the hoist at landing level 3, close the door and press the button on the landing level module.
  - ✓ The button lights up and the hoist moves to landing level 1.

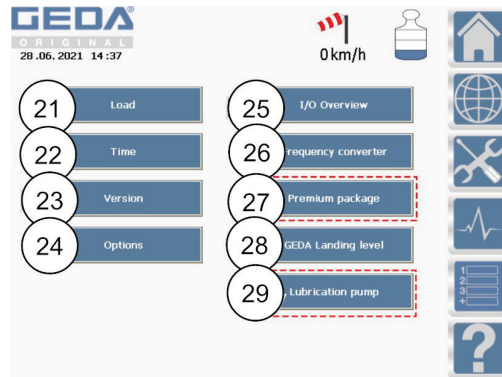
If a touch display is installed at the ground station, the material transport (1) will be displayed.



Fig. 53: Display of material transport at ground station

### 2.4.8 Landing level diagnostics

➤ Tap the field (28).



✓ An overview of the stop positions (ground station and landing levels) with their function statuses is shown.

- Door open
- Door closed
- Hoist called (button on landing level module pressed)

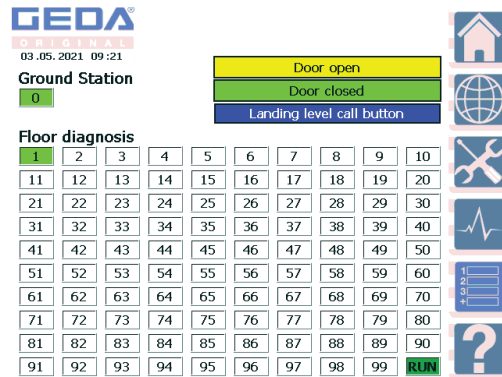
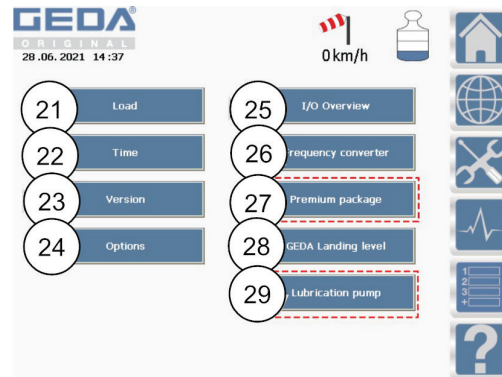


Fig. 54: Overview of landing level function statuses

## 2.4.9 Lubrication device

- Tap the field (29).



- ✓ The lubrication device variant is displayed with the possible functions/settings in each case.

### 2.4.9.1 Lubrication device variant 1

- ✓ Information on the lubrication device is displayed.

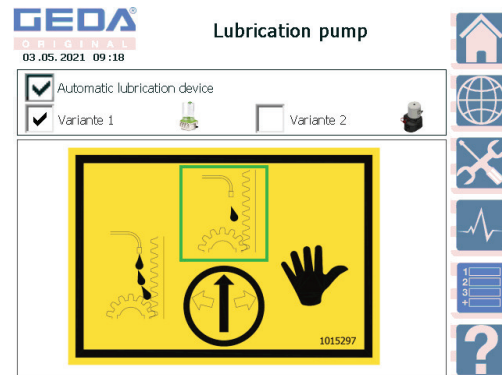


Fig. 55: Lubrication device variant 1 (automatic mode)

### 2.4.9.2 Lubrication device variant 2

#### Adjusting the lubrication quantity

- The lubrication quantity can be adjusted with the slider (a).

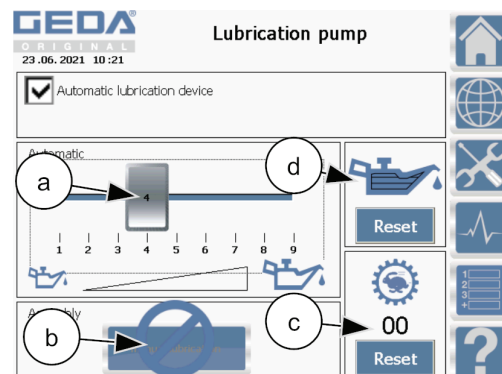


Fig. 56: Lubrication device (automatic mode)

- b Lubrication during assembly mode is not possible in automatic mode
- c Number of "Travel slowly" messages
- d Fill level of the lubrication device

### Adjusting lubrication during assembly mode

- Tap the field (f).
  - ✓ Lubrication for the gear racks is not switched on for 20 minutes.

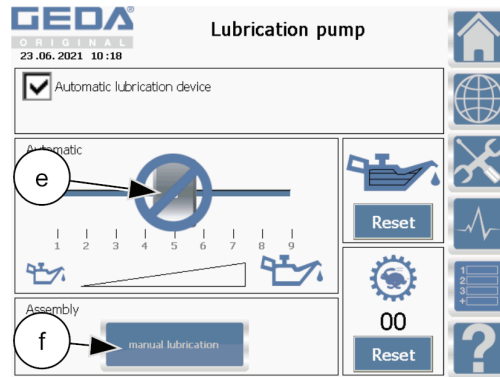


Fig. 57: Lubrication device (assembly mode)

- e Adjustment of lubrication quantity not possible in assembly mode



**The lubrication device is only active during upward travel.**

**If the message "Lubrication device empty" (fill level orange) appears, the hoist will slow down after a certain time.**

**The counter (c) is increased by 1. The message can be acknowledged by tapping Reset. The hoist then moves faster again for a limited period.**



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