Brief instructions for operation

for 1. Starting the Dialock Furniture Terminal up

1. Before installing in furniture, lay out the following parts:
   Dialock Furniture Terminal, external antenna, transformer, programming and cancelling keystick.

2. Connect the antenna to the Dialock Furniture Terminal. **Do not connect the transformer to the Dialock Furniture Terminal yet.**
   Keep the green programming keystick and the red cancelling keystick in readiness.

3. The following procedure must be carried out quickly and without interruption.
   **Connect** the transformer to the Dialock Furniture Terminal. The LED flashes green for a maximum of 5 sec. If it flashes for longer than 5 sec. or if it flashes red, **do not** hold the keystick in front of it, but disconnect it from the power supply and then re-connect it. While the LED is still flashing green, hold the green programming keystick in front of the external antenna. The LED flashes red to confirm successful teaching. While the LED is still flashing red, hold the red cancelling keystick in front of the external antenna within 5 sec. The red LED lights up to confirm successful teaching.

Assigning access rights for user key sticks (simultaneous locking)

1. Hold the green programming key stick in front of the external antenna*. An acoustic signal is heard.

2. The LED flashes green.

3. Hold the user key stick to be assigned in front of the external antenna* within 5 sec. When the LED flashes green briefly, access right has been assigned to that user key stick and an acoustic signal is heard.

4. Remove the user key stick just assigned.

5. Hold the next user key stick to be assigned in front of the external antenna* within 5 sec.

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
Assigning access rights to user key stick (individually locking)

1. Hold the green programming key stick in front of the external antenna* several times (number of times corresponds to address number). Example: desired address number is 7: hold the green programming key stick 7 times briefly in front of the external antenna*. Every time the stick is held in front, an acoustic signal is heard.

2. The LED flashes green several times (number of times corresponds to address number) and repeats the flashing process after a short interval. An acoustic signal is heard.

3. Hold the user key stick to be assigned in front of the external antenna* within 5 sec. When the LED flashes green briefly, right of access has been assigned to that user key stick.

4. Remove the user key stick just assigned.

5. Hold the next user key stick to be assigned in front of the external antenna* within 5 sec., if another keystick is desired for the same address.

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
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Attention!

It is essential that you read the “Start-up” section (see Page 47 ff.) of these instructions before commissioning (assignment of keys).

Items supplied

- 1 Dialock Furniture Terminal DFT/B factory setting, locking cycle* (Spring-lock function), external antenna (art. no. 237.56.110)
  - factory setting, locking cycle* (Spring-lock function), internal antenna (art. no. 237.56.120)
  - factory setting alternating mode* (Bolt-lock function), external antenna (art. no. 237.56.150)
  - factory setting alternating mode* (Bolt-lock function), internal antenna (art. no. 237.56.160)

* see page 36 Basics

- 1 external antenna (art. no. 237.56.130)
• 1 transformer (art. no. 821.80.041)

Fig. 3

• 1 6-fold distributor (art. no. 823.28.780)

Fig. 4
The following Häfele products are not included in the package:

- programming key stick (green) (art. no. 917.04.012)
- erasing key stick (red) (art. no. 917.04.021)
- user key stick (black) (art. no. 917.04.000)

- Output extender (art. no. 910.51.081)

- FLC Furniture Lock Case (art. no. 237.56.000)
Area of application

The Dialock Furniture Terminal is part of the Dialock electronic locking system. It is the central unit for the electro-mechanical locking of furniture items such as cupboards, drawers, lockers and roller shutters.

Performance characteristics

- Simple and convenient operation
- Use of up to 200 user key sticks
- Control of up to 6 FLC Furniture Lock Cases, or with a second 6-fold distributor, up to 11 FLC Furniture Lock Cases.
  The opening and closing process is the same for each FLC Furniture Lock Case (simultaneously locking).
- Possibility of controlling other FLC Furniture Lock Cases by means of the optional output extender.
  This allows individual setting of the opening and closing process of each FLC Furniture Lock Case (individually addressable).
- Selectable locking modes: locking cycle (Spring-lock function) and toggle mode (Bolt-lock function).

Basics

**Locking cycle (Spring-lock function):** when an authorised user key stick is held in front of it, the Dialock Furniture Terminal unlocks the lock case for a certain adjustable period. During this time it is possible to open the furniture (e.g. a locker). Following this period, the Dialock Furniture Terminal locks the mechanism again automatically.

**Toggle mode (Bolt-lock function):** when an authorised user key stick is held in front of it, the Dialock Furniture Terminal unlocks the Furniture Lock Case. However, the Dialock Furniture Terminal does not close the lock again until an authorised user key stick is again presented.
Instructions for installation

Safety note:
Voltage must be supplied via a safety transformer only.

During installation the transformer must not be connected to the power supply.

Installation condition
Before installing the Dialock Furniture Terminal, first fix suitable positions and locations for the following system components:

- Dialock Furniture Terminal
- External antenna
- Transformer
- Distributor block (6x)
- FLC Furniture Lock Case
- Output extender (optional)

When installing the individual system components always comply with the appropriate installation instructions.

When laying the connecting cables and installing the Dialock Furniture Terminal, there is a risk that wires or components may be crushed or jammed. Always ensure that there is a sufficient clearance between them and moving parts. If necessary, suitable cable extensions should be used. All cables should be secured with suitable brackets and holders to prevent them from slipping.
Required material and tools (not supplied):
• Cross-headed screwdriver, size 2
• Awl
• Wooden body and door: Hospa screws (Ø 3.5 mm x X mm, depending on body thickness)
  Otherwise suitable screws, e.g. sheet-metal screws for metal cupboards
• Various cable holders

Procedure
1. Position and fix the Dialock Furniture Terminal and system components as shown in the wiring diagram.
2. Lay connecting cables.
3. Assemble the plug at the end of the cable of the FLC lock case.
4. Connect the plugs for the connecting cables to the Dialock Furniture Terminal.
Installation and Operating Instructions

Wiring diagram

Variant A: simultaneous locking

Max. 11 FLC Furniture Lock Cases

Transformer 12 V / 20VA

optional:
second distributor block 6x

Distributor block 6x

Dialock Furniture Terminal

External antenna

Fig. 8a Dialock Furniture Locking System with external antenna

1 Power-supply cable

Variant B: individually addressable

1 FLC Furniture Lock Case
Address 1

Transformer 12 V / 20VA

Dialock Output Extender

Max. 8 FLC Furniture Lock Cases Addresses 2-9

Fig. 8b Dialock Furniture Locking System with external antenna

1 Power-supply cable
2 Data cable
Transformer 12 V / 20VA

Fig. 8c: Dialock Furniture Locking System with external antenna, 6x distributor block and optional output extender with 14 FLC Furniture Lock Cases

Max. 6 FLC Furniture Lock Cases simultaneously closing

Max. 8 FLC Furniture Lock Cases addresses 2-9

Output block 6x

Variant C: Mixed operation, simultaneously locking and individually addressable

Installation and Operating Instructions

Hafele
1. Fix the position of the Dialock Furniture Terminal. If required, the attachment rings can be turned 90°. To do this, unscrew the cross-head screws and turn the lugs around 90°. Then tighten the screws to hand tightness.

2. Using the awl, mark the screw holes in the furniture body.

3. Attach the Dialock Furniture Terminal to the furniture body with 4 screws.
External antenna

Follow the installation instructions for the antenna!

Protect the external antenna cable against pulling.
⇒ If necessary, use a pull-relief device.

Protect cable against breaking:
⇒ Do not bend cable

1. Position the external antenna in such a way that the LED points upwards.

![Fig. 10 Front foil of external antenna](image)

2. If necessary, cut a recess in the furniture body.
3. Using the awl, mark the screw holes in the furniture body.
4. Attach external antenna with 2 screws.
5. Press the front foil onto the furniture body so that it fits with the LED of the external antenna.
Installation and Operating Instructions

Transformer

Ensure that you install the transformer correctly!

1. Fix the position for the transformer.
2. Mark the screw holes with the awl.
3. Attach the transformer with 3 screws.

6-fold distributor block

The distributor block must remain accessible after installation!
When selecting the location, ensure that all the connections also remain accessible after installation.

1. Insert the plug of the 6x distributor block into the socket marked "Power Output" on the Dialock Furniture Terminal.
2. If required, secure the distributor with a cable holder.
3. Connect the optional second 6x distributor as shown in figs. 8a/c.

FLC Furniture Lock Case

Follow the installation instructions for the FLC Furniture Lock Case!
Output Extender (optional)

The output extender must remain accessible after installation!

⇒ When selecting the mounting position ensure that all connections can be easily reached after.

1. Attach output extender with 2 countersunk head screws (Ø= 5mm)
2. Insert plug of FLC Furniture Lock Case into output 1-8 of output extender. If necessary use extension cable.
3. Plug data line to the Dialock Furniture Terminal into the western socket (connection 3).
4. Connect power line (connection 5) to the transformer.

Fig. 11 Output Extender - plug configuration
1 Outputs 1-8, connections for FLC Furniture Lock Case
2 Data line from Dialock Furniture Terminal
3 Do not use!
4 Do not use!
5 Power supply from transformer
Plug
The plug at the end of the connection cable of the FLC Furniture Lock Case should be connected to the cable as follows:

Before connecting the plug the cable must be laid from the FLC Furniture Lock Case to the Dialock Furniture Terminal, output extender, or 6x-distributor, because the cable has to be pushed through small holes and grooves. It is not possible to re-open the plug without damaging it.

1. Pull the sides of the plug apart.

2. Separate the wires in the cable.

3. Push the ends of the cable into the plug until they lock into position.

4. Close one side of the plug and press the cable into position.
5. Check the position of the cable. Take care not to crush the wires when closing the other side of the plug!

6. The plug is now safely connected to the cable.

Connect all the cables
Plug in all the cables of the individual components as shown in the connection diagrams (fig. 8 a/b/c).

Switching on voltage supply

Read the following instructions carefully before switching on the voltage supply to the transformer!

When the voltage supply is switched on, the Dialock Furniture Terminal is ready for use and in the start-up mode.

The Dialock Furniture Terminal is completely installed.
A function test is only possible once the start-up process has been completed and a user key stick has been assigned.
Start-up

The Dialock Furniture Terminal is supplied in the so-called single mode for stand-alone (SA) operation. These instructions describe this mode only. Other modes are possible following consultation with the dealer or the service agency.

Ensure that the user key sticks are not misused by unauthorised persons. Keep the programming and the erasing key stick in a safe place. These are used for assigning and withdrawing access rights to individual user key sticks.

At the first start-up, the programming and erasing keys themselves must be "assigned":

This step can only be carried out directly after applying the supply voltage for the first time.

1. Before installing in furniture, lay out the following parts:
   Dialock Furniture Terminal, external antenna, transformer, programming and cancelling keystick.

2. Connect the antenna to the Dialock Furniture Terminal. **Do not connect the transformer to the Dialock Furniture Terminal yet.**
   Keep the green programming keystick and the red cancelling keystick in readiness.

3. The following procedure must be carried out quickly and without interruption. **Connect** the transformer to the Dialock Furniture Terminal. The LED flashes green for a maximum of 5 sec. If it flashes for longer than 5 sec. or if it flashes red, **do not** hold the keystick in front of it, but disconnect it from the power supply and then re-connect it. While the

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
LED is still flashing green, hold the green programming keystick in front of the external antenna. The LED flashes red to confirm successful teaching. While the LED is still flashing red, hold the red cancelling keystick in front of the external antenna within 5 sec. The red LED lights up to confirm successful teaching.

If errors continue to occur:

➡️ call the service agency.

**Short instructions**

**Controlling the Furniture Lock Case**

Simultaneous locking: all the FLC Furniture Lock Case connected to the 6x distributor (fig. 8a/c) open and close simultaneously when an authorised user key stick is detected.

Individually addressable: each FLC Furniture Lock Case (fig. 8c) connected to the output extender (not included in package) opens and closes independently of all the other Furniture Lock Cases connected to it. User sticks have to be assigned individually for each Furniture Lock Case. The Furniture Lock Cases are addressed according to the following connection scheme:

<table>
<thead>
<tr>
<th>Address</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power output</td>
</tr>
<tr>
<td></td>
<td>on Dialock Furniture Terminal</td>
</tr>
<tr>
<td>2</td>
<td>output 1</td>
</tr>
<tr>
<td>3</td>
<td>output 2</td>
</tr>
<tr>
<td>4</td>
<td>output 3</td>
</tr>
<tr>
<td>5</td>
<td>output 4</td>
</tr>
<tr>
<td>6</td>
<td>output 5</td>
</tr>
<tr>
<td>7</td>
<td>output 6</td>
</tr>
<tr>
<td>8</td>
<td>output 7</td>
</tr>
<tr>
<td>9</td>
<td>output 8</td>
</tr>
</tbody>
</table>
Assigning access rights for user key sticks (simultaneous locking)

1. Hold the green programming key stick in front of the external antenna*.
   An acoustic signal is heard.
2. The LED flashes green.
3. Hold the user key stick to be assigned in front of the external antenna* within 5 sec. When the LED flashes green briefly, access right has been assigned to that user key stick and an acoustic signal is heard.
4. Remove the user key stick just assigned.
5. Hold the next user key stick to be assigned in front of the external antenna* within 5 sec.

Assigning access rights to user key stick (individually locking)

1. Hold the green programming key stick in front of the external antenna* several times (number of times corresponds to address number).
   Example: desired address number is 7: hold the green programming key stick 7 times briefly in front of the external antenna*. Every time the stick is held in front, an acoustic signal is heard.
2. The LED flashes green several times (number of times corresponds to address number) and repeats the flashing process after a short interval. An acoustic signal is heard.
3. Hold the user key stick to be assigned in front of the external antenna* within 5 sec. When the LED flashes green briefly, right of access has been assigned to that user key stick.
4. Remove the user key stick just assigned.
5. Hold the next user key stick to be assigned in front of the external antenna* within 5 sec., if another keystick is desired for the same address.

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
Withdrawing access rights from user key stick (simultaneously and individually locking)
1. Hold the red erasing key stick in front of the external antenna.
   The LED flashes red. An acoustic signal is heard.
2. Hold the user key stick to be erased in front of the external antenna*.
3. The LED lights up red. access right is withdrawn. An acoustic signal is heard.

Withdrawing access rights from all user key sticks
If a user key stick is lost and therefore has to be erased all the user key sticks for the Dialock Furniture Terminal must first be cancelled and then re-assigned.

1. Hold the red erasing key stick in front of the external antenna.
   The LED flashes red. An acoustic signal is heard.
2. Hold the green programming key stick in front of the external antenna*.
   The LED lights up red for a moment.
   All locking rights are cancelled. An acoustic signal is heard.
3. Re-assign access rights to all user key sticks.
   See "Assignment of Locking Rights for User Keysticks", page 49.

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
Locking mode

Applies only for art. no. 237.56.110 and 237.56.120

Note:
A special setup key is required for setting the open time and the toggle mode (bolt-lock function) of the FLC Furniture Lock Case. The setting key is not included in the package and can be obtained from a dealer or directly from Häfele.

Setting the open time
1. Hold the setup key in front of the external antenna*. The LED flashes red-green alternately.
2. Hold the green programming key stick in front of the external antenna* within 4 sec. The LED flashes green.
3. The open time depends on the length of time the green programming key stick is held in front of the external antenna (max. 25 sec.).

Activating the toggle mode (bolt-lock function)
1. Hold the setup key in front of the external antenna*. The LED flashes red/green.
2. Hold the green programming key stick in front of the external antenna* for less than one sec. The toggle mode is now activated.

To de-activate the toggle mode (bolt-lock function), set an open time of more than one second.

Note:
For all the FLC Furniture Lock Cases connected the open time and the opening mode are the same. Differing configurations are not possible.

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
Operating instructions

1. Hold the user key stick in front of the external antenna*.
   The LED lights green.

2. The appliance (i.e. the corresponding FLC Furniture Lock Case) is unlocked for the open time set (default = approx. 5 sec.).
   If the LED does not switch from red to green:
   - hold the user key stick closer to the external antenna.
   If the LED still does not switch from red to green:
   - the key stick is not authorised to access.

Special feature
Locking process of Dialock Furniture Terminal in toggle mode (bolt-lock function) using output extender and user key stick with different authorisations (authorisation pattern):

Starting position: all FLC Furniture Lock Cases are locked.

When an authorised user key stick (key 1) is presented, the Dialock Furniture Terminal unlocks all the FLC Furniture Lock Case for which authorisation is assigned.
If a second user key stick (key 2) with a different authorisation pattern is held in front of it, all the previously unlocked FLC Furniture Lock Cases are locked again and the LED lights red. The second authorised user key stick (key 2) must then presented again to unlock the related Furniture Lock Cases.

* In the case of an internal antenna, hold the key stick in front of the Dialock Furniture Terminal
Example: access plan

<table>
<thead>
<tr>
<th>Cupboard</th>
<th>Key 1</th>
<th>Key 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>4</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

**Example**

All FLC Furniture Lock Cases 1-5 are locked.
LED lights red.

**Step 1:**
Hold key 1 in position.
- FLC Furniture Lock Cases 1, 2 and 5 are unlocked
- FLC Furniture Lock Cases 3 and 4 are locked
- LED lights green.

**Step 2:**
Hold key 2 in position.
- All FLC Furniture Lock Cases 1-5 are locked.
- LED lights red.

**Step 3:**
Hold key 2 in position again.
- FLC Furniture Lock Cases 3, 4 and 5 are unlocked
- LED lights green.
FAQs

I have lost my user key stick and want to cancel it.
How do I do it?

If a user key stick is lost and is to have its access right withdrawn, all the user key sticks on the Dialock Furniture Terminal have to be erased and then all the remaining key sticks have to be re-assigned.
See page 50 "Withdrawing access rights from all user key sticks".

I have lost a programming key stick and want to cancel it.
How do I do it?

Please contact the service agency.
Technical data

Dimensions: 100 x 50 x 25 mm (l x w x h)

Voltage supply: 11-14 V AC, or 12-17 V DC

Power consumption: 75 mA, max. 550 mA
(for external antenna component and 11 FLC Furniture Lock Cases)

Cable length for supply voltage: 100 cm

Socket 1: for 6x distributor block (AMP Mate-N-LOK)

Socket 2: for external LED and external antenna type RJ11 (western socket 4)

Socket 3: for Dialock output extender type RJ11 (western socket 4/6)

Temperature range: 0 – 65 °C

Air humidity: 0 – 90 % non-condensing

Fuse: 0.5 A internal (for overload and short-circuit) at power output for FLC Furniture Lock Case