MH10.

Window locking drive gear.
Contents

1. Safety information and hazard warnings ................................................................. 3
2. Intended use .............................................................................................................. 5
3. Function .................................................................................................................... 5
4. Scope of delivery ..................................................................................................... 8
5. Installation ............................................................................................................... 9
6. Electrical connection ............................................................................................. 16
7. Setup ....................................................................................................................... 18
8. Operation ............................................................................................................... 20
9. Troubleshooting .................................................................................................... 23
10. Accessories ......................................................................................................... 24
11. Maintenance and cleaning ................................................................................... 25
12. Technical specifications ....................................................................................... 25
13. Information concerning product liability ............................................................. 26
14. Feedback on documentation ................................................................................. 26
15. EC declaration of incorporation .......................................................................... 27
1. Safety information and hazard warnings

Before installing and using the MH10, please read these instructions carefully. Observe the warnings and specific hazard information. Contraventions may lead to our warranty and product liability being rendered null and void.

Once the MH10 has been installed, these operating instructions must be handed over to the user, and the user/owner of the building must be briefed accordingly.

All work in connection with the installation and start-up of the MH10 may only be carried out by suitably trained personnel and specialists. You must comply with the applicable regulations governing mechanical and electrical work and follow the safety instructions in our product documentation.

1.1 On-site risk and hazard analysis in the planning phase

In order to assess the potential hazards of a power-operated window and to take the appropriate protective measures, you must assess risks in the planning phase.

A risk analysis provides you with all the information needed to assess risks and make decisions concerning the safety of the window elements.

Crushing and shearing can occur at the window during the operation of an MH10. You must carry out a risk and hazard analysis during the planning phase in accordance with VFF data sheet KB.01 and the current Machinery Directive relating to the safety equipment and installation location as appropriate for the individual property and conditions of use (e.g. in case of persons requiring special protection or commercial properties).

The analysis

- takes into account the protective measures necessary in the planning phase
- must be carried out before start-up
- provides information based on the individual installation location and instructs users on how to install the window system in order to prevent or minimise possible hazards
- draws attention to possible residual risks

The following aspects must be checked:

- Public or non-public area (private or industrial property)
- Installation location: The unit is not suitable for use in swimming pools and/or wet rooms.
- Users (authorised, persons briefed or requiring protection): This unit can be used by children aged 8 and above and by persons with physical, sensory or mental difficulties or with a lack of experience and knowledge, as long as they are supervised or have been instructed in how to use the unit safely and understand the resulting risks. Children must not play with the unit. Cleaning and user maintenance must not be carried out by children without supervision.
- Special structural conditions: In the event of fire, doors fitted with the MH10 motorised handle must not be used as escape doors.
- Type of access control
1.2 Risk of injury

- Danger to life: There is a risk of crushing and becoming trapped with electronically powered windows and flaps. If the window is installed in an accessible area, e.g. at a height of less than 2.5 m (lower window edge), the appropriate measures must be taken to secure the main and secondary closing edges to ensure that no persons are put in danger if they accidentally find themselves in such areas.
- The information contained in ASR A 1.6 and VFF data sheet KB.01 for power-operated windows, doors and gates must be observed.
- If you are using the system for commercial purposes, you must also observe the safety instructions of your accident insurance provider.
- The supplied sticker for pinch protection must be placed on a visible area on the frame of the power-operated window.
- The attached supplementary sheet "Safety and hazard information" must also be observed.
- It is strongly advised that you familiarise yourself with the chapter "8.5 Manual emergency operation/release" on page 4 so that you are also able to open and close the window with the MH10 in the event of a power failure.
- Observe the safety regulations for operating electrical equipment and, if necessary, for ladders, steps and work overhead or at certain heights.

1.3 Fire hazard and risk of electrical shock

- Never directly connect the MH10 to the 230 V AC mains power supply. Always use a 24 V DC/ min. 1 A power pack approved by SIEGENIA for the power supply.
- Relevant country-specific regulations must be strictly followed for all work carried out on the voltage supply system or house wiring system.
- Any work on the 230 V AC mains power supply required to connect the MH10 may only be performed by a qualified electrician.
- Current local regulations (such as those of the VDE in Germany) must be observed.
- If the wall power supply does not include its own mains switch, a mains isolator must be installed by the customer.
- When cleaning the window, make sure that no liquid gets inside the MH10 system as this may cause damage to the electronics.
- The unit must be checked by a specialist in the event of a fault.
2. Intended use

The MH10 is installed instead of the manual lever on the window sash and is suitable for motorising turn-only, tilt-and-turn, tilt-only or parallel action windows with force-controlled top stays (only with SIEGENIA hardware).

The MH10 can be operated using the switch or optional infra-red remote control.

3. Function

3.1 Features

• For universal use in a variety of window designs and opening types with hardware for turn-only, tilt-and-turn, tilt-only or parallel action windows
• All hardware settings (0°, 90° and 180°) for locking, turning, tilting and parallel action can be achieved depending on the hardware
• Automatic teach-in and window gauging when starting up the MH10 for DIN left and DIN right window opening types
• Automatic window tilting, closing and locking with force-controlled top stay
• Manual emergency operation in the event of a power failure
• 10-minute automatic ventilation
• Simple installation on all profiles and materials without milling
• Power supply with 24 V DC wall power supply for easy retrofit
• Infrared remote control (optional)
• Connecting cable with 6 conductors for activating the MH10 using external building control technology (e.g. weather sensors, touch contact switch, BUS)
• Separable cable transfer and 24 V wall power supply optionally available
3.2 Use

**Activation**

Windows with a 90° (turn-only) and 180° function (tilt-only or parallel action) can be activated. The infra-red remote control can always be used alongside any of the other control options. The stop button can be used to stop the at any time.

**Defining window settings**

- Up (tilting or parallel action): 180° (reference angle)
- Turn: 90°
- Locking (closed): 0°

**Manual emergency operation**

In the event of a power failure, the window can be opened manually with the MH10. In this scenario, the MH10 actuator unit and casing is released from the base plate and turned in the hardware gear through the square like a conventional manual handle.

If there is a power failure or if the emergency release is triggered, the actuator saves its current position. The actuator must be installed in its original position after emergency operation (see "8.6 Mounting the casing after emergency operation/release" on page 6).

**Infra-red remote control and wall switch**

The MH10 can be operated using the optional infra-red remote control or using the wall switch installed by the customer.

**Group control**

The infrared remote control can control up to 5 actuator groups separately. Several MH10 are taught in to the required group in setup mode (see "7. Setup" on page 6). Up to 8 infra-red remote controls can be taught in on one actuator.

**Automatic ventilation**

By operating the corresponding button on the infra-red remote control or by a command from the external control device, the window moves into tilt position and after 10 minutes is automatically closed again at creep speed.

**Safety slow speed mode**

A special feature of the MH10 is its high traverse speed. For added safety when operating without visual contact or when there is risk of being crushed – using external controls, switches on the actuator casing or during the 10-minute automatic ventilation – the window is closed in safety slow speed mode.
**Safety reverse mode**

If the up, down or 10 min. ventilation buttons are pressed while the MH10 is traversing from the tilt to the closed position, the MH10 moves the window back to tilt position. If the "Stop" button is pressed, the actuator stops.

**Releasing the system**

To easily disassemble the MH10 from the sash in any position or to operate the window in the event of a power failure, the actuator is released by briefly moving back the square in the hardware gear.

**Automatic window detection for DIN right or DIN left**

In order to detect whether a window is set to DIN left or DIN right, a measurement run is performed by the MH10 during initial start-up. During installation, the window must be locked so that this can be performed correctly.

**Locking edge protection**

The MH10 includes a built-in electronic analysis system as standard for 2 locking edge switch strips on the window. If the locking edge protection is triggered during the closing movement, the actuator moves in the opposite direction to the original position. After 10 seconds, it tries this again at a slower speed. After repeating this three times, the actuator moves back to and remains in the original position.

The locking edge protection is only effective between the tilting and turning position in the closing direction and is deactivated on the MH10 if the window is closed or locked.

If the locking edge protection is activated in conjunction with the contact switch strips it should be checked at regular intervals (e.g. every three months). The contact switch strips must have a terminal resistance of 5.6 kohms.

Suitable contact switch strips are available, for example, from:
Mayser GmbH & Co. KG
Örlingerstr. 1-3
89073 Ulm, Germany
Tel.: +49 731 20 61-0

**Control via time switch**

The MH10 can be operated with a time switch for automatic ventilation. Digital time switches are available at specialist electronics stores for convenient programming of ventilation intervals.

A suitable time switch must be a dual channel design which enables impulse switching.

For example, the following type can be used:

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Type</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theben</td>
<td>TR 622 top 2</td>
<td>DIN rail mounting</td>
</tr>
</tbody>
</table>
4. Scope of delivery

- Square pin (50 mm length)
- Base plate
- Terminal strip
- Terminal strip bracket
- GAMH0010 actuator unit
- 6-conductor connecting cable (5 m length)
- "Crushing danger" sticker
- Safety information and hazard warnings
- Translation of the original operating instructions
5. Installation

The following description of the installation process is a recommendation from the manufacturer and is limited to the key installation steps. The specific details of the installation process are primarily determined by the window type, production process and the window manufacturer’s equipment.

5.1 Installation preparation

The installation of the MH10 should always be performed by an experienced and qualified window specialist, in accordance with the SIEGENIA installation and planning documents. If you have any questions about the installation, please contact the head of the relevant SIEGENIA department or your window specialist. If further problems arise, contact us directly.

Always read the safety information and hazard warnings.

Never directly connect the MH10 to the 230 V AC mains power supply. Always use a suitable 24 V DC power pack for the power supply (see "10. Accessories" on page 9).

5.2 Installation requirements

Hardware

- Make sure that SIEGENIA window hardware suitable for the function of the MH10 is installed (e.g. force-controlled top stay, turning lock, PAF (parallel action) hardware)
- Detailed hardware data on size ranges and sash weights can be found in the relevant assembly instructions
- Installation of the MH10 system can only be performed once the hardware gear or sash hardware has been assembled
- A gear trial bore must be present in the sash profile
- The gear square must be in the locking position
- Check the profile depth of the sash and, if necessary, fit the square pin over the washer (to 40 mm, 35 mm or 31 mm)
- The hardware must run smoothly and the maximum torque on the gear must not exceed 8 Nm
- In the hardware, the mid fixation must be broken with the manual handle before installation
- Check that the hardware can be switched to 90° and 180°
Window

- In accordance with ENV 1627-1630, the MH10 has not been tested as a locking unit.
- When using a force-controlled top stay, the maximum sash weight is 80 kg.
- The permissible sash geometries and weights can be found in the assembly instructions for the corresponding SIEGENIA profiles.
- For the installation of the MH10, the window and hardware must be locked.
- The window must not be warped.
- The window must be installed vertically plumb in the reveal.
- The window sash must close evenly on all four sides.
- Before the installation, ensure the optimal cable installation in the sash profile and prepare the "sash frame" cable transfer on the hinge side.
- If the pins are suitably fitted in the gear drill, the actuator unit base plate can also be used as a drilling template for the cable exit hole and the bottom fixing hole on the window sash (see "5. Installation" on page 10).
- Remove both handle fixing screws for the later installation of the base plate and re-use.
- For very narrow sash profiles, the casing of the MH10 can protrude slightly from the glazing bead.

MH10 actuator

- The MH10 is set to "locked" (indicator points downward) when delivered.
- Never start up the MH10 unmounted.
- After the initial start-up, the MH10 automatically ascertains the hardware type with a measurement run (turn, turn-and-tilt or parallel action) and whether the window is assembled to DIN left or DIN right.
- Clarify in advance how the MH10 should be activated (components provided by the customer, power packs).
- The locking edge protection can be activated using a DIP switch on the circuit board (casing underside) (see "6.5 Create operating mode" on page 10).
- Before installing and distributing the window with the mounted MH10, the element must undergo a test run.
5.3 Window cable installation information

- Ideally, the cable channel should be concealed in the window sash. The cabling in the glazing rebate and the bore near to the bottom hinge must be carried out by a window specialist dependent on the window frame profile, hardware type and cable transfer used.
- The type of concealed cable fitting depends on the window type in question. Depending on the installation conditions, the following options are available:

**Variant A: cable routing for new constructions and renovations**
- Route through the glazing rebate or through the sash profile sections.
- Cables can be routed at the workshop (remove window).
- Route below the sealing lips.
- Route in profile recesses and cavities.

**Variant B: cable routing in windows that have already been installed**
- Check whether the glass pane can be removed (glazing bead fastenings), then route through the glazing rebate.
- If a concealed cable channel is not possible, the cable must be routed in as discreetly as possible in a narrow installation channel.

**Cable routing with standard cable transfer provided by the customer**
- Use the 6-conductor cable (5 m long) supplied to route the cables.
- Connect the cable to the terminal strip of the MH10.
- Route the cables through the stainless-steel coils of the standard cable transfer to the frame.
Cable routing with SIEGENIA separable cable transfer

- If the separable cable transfer from SIEGENIA is used instead of the cable supplied with the MH10, please observe the following:
- The separable cable transfer contains a 6-conductor, 4 m long cable on the sash.
- Route the cable from the separable cable transfer through the glazing rebate to the MH10.
- Connect the sash cable to the terminal strip of the MH10.
- The supplied MH10 cable can be disposed of or re-used.
- Warning: You must make sure that the cable fitted in the sash is free of moving parts, is not clamped in place and is able to withstand damage over time.
5.4 Installation sequence

1. Keep screws safe for base plate fastening
2. Lock window
3. Use base plate as drilling template
See "5.3 Window cable installation information"

See "6. Electrical connection"

Terminal configuration:
1 = blue
2 = red
3 = green
4 = yellow
5 = brown
6 = white

Screw depends on profile material

e.g. M5x40
Translation of the original operating instructions

Push gear unit up in the casing

Press the casing flush against the window profile and push up

The "crushing danger" sticker is included in the scope of delivery
6. Electrical connection

6.1 Configuring the MH10 terminal strip

- Terminal 1: − 24 V DC (blue conductor)
- Terminal 2: + 24 V DC (red conductor)
- Terminal 3: Connection for external switch or potential-free actuator switching contact (e.g. LON, EIB) for the "close window" function
- Terminal 4: as per terminal 3, except function is "window in tilt position"
- Terminal 5: Locking edge safety strip line 1
- Terminal 6: Locking edge safety strip line 2

6.2 Wiring of components

Connect the supplied 6-conductor cable, or alternatively the separable cable transfer, to the MH10 and fit the opposite end to the branch box.

Use both conductors, with a cross-sectional area of 0.34 mm² (blue and red), for the power supply and the 4 conductors with a cross-sectional area of 0.14 mm² for the control cables.

6.3 Wiring and function of the locking edge protection

The contact switch strips must have a terminal resistance of 5.6 kohms. If only one switch strip is connected to line 1, one with a terminal resistance of 5.6 kohms must be connected to line 2.

If a resistance greater than 20 kohms is measured on a line, a fault will be displayed (see "9. Troubleshooting"). In this state, only the turning and parallel action position is permitted for safety reasons. Referencing is therefore not possible.

If a resistance less than 500 ohms is measured on a line, the locking edge protection is triggered. These values apply for a supply voltage of 24 V.

The locking edge protection is only effective between the tilting and turning position in the closing direction.

If the locking edge protection is triggered in the tilt direction or when static, the LED will light up yellow. This can be used to check that the locking edge protection is functioning.
6.4 Wiring diagram

MH10 Branch box 24 V/1 A power pack

- 24 V DC
+ 24 V DC

1 2 3 4 5 6
blue red green yellow brown white

Safety strip line 2*
Safety strip line 1*
Wall switch**

5k6 5k6 Z A

*If a safety strip is only connected to one line, a terminal resistance (5.6 kohms) must be connected to the other
**Potential-free contacts of a time switch can be connected in place of or parallel to the switches. The time
switch contacts must only be closed briefly (impulse switching). Type "MH10 90 degrees": Key switches with
switch contacts can be connected to the window or door release.

6.5 Setting the operating mode

"Operate without locking edge safety strip" mode
DIP switches 1 and 2 are "OFF"
This mode is set on delivery.

"Operate with locking edge safety strip" mode
DIP switch 1 is "OFF"
DIP switch 2 must be set to "ON"
7. Setup

**Note:** All settings are retained after a power failure.

7.1 Initial start-up

Supply power to the actuator

LED flashes red

Hold down button for 2 seconds

Upon one short tone, release button

The window measuring run is initialised

7.2 Teaching in or deleting the infra-red remote control

Hold down button for 5 seconds

Upon two short tones, release button

LED flashes red

Select the group you require (1-5)²

Short tone -> Infra-red remote control saved
Long tone -> Infra-red remote control deleted

---

¹) LED flashes for 10 seconds, after which setup mode is automatically ended, without teaching in or deleting infra-red remote controls.

²) Allocate MH10 to an infra-red remote control group or delete an MH10 that has already been taught in from a group. Attention! To teach in, push the button once only, otherwise the group will be deleted.
7.3 Deleting all taught-in infra-red remote controls

Hold down button for 8 seconds

Upon three short tones, release button

LED flashes red

8 s

Hold down button for 2 seconds

Long tone -> Deletes all infra-red remote controls

2 s

1) LED flashes for 10 seconds, after which setup mode is automatically ended, without teaching in or deleting infra-red remote controls.

7.4 Initialising measurement run

Note: The measuring run is only used for new measurements, in case the MH10 is installed in a different and/or new window.

Hold down button for 11 seconds

Upon four short tones, release button

LED flashes red

11 s

Hold down button for 2 seconds

Long tone -> The MH10 begins measurement

2 s

1) LED flashes for 10 seconds, after which setup mode is automatically closed, without saving new measuring data.
8. Operation

8.1 Using switch on the actuator casing

1) For the "parallel action" function, the window must be fitted with the appropriate PAF hardware.

8.2 Using wall switch

1) If the MH10 is moving to the turning position, the external control is locked in this position for safety reasons. In the event of a power failure, the actuator detects that it was in the turning position. Once power is restored, it is again set to the turning position. It is therefore unable to be operated externally.
8.3 Using infra-red remote control

As an example, 2 skylights were assigned to actuator group 1 and 2 standard windows to actuator group 2

**Note:** The infra-red remote control saves the most recently selected group

1) For the "parallel action" function, the window must be fitted with the appropriate PAF hardware.

8.4 LED status indicator

<table>
<thead>
<tr>
<th>LED indicator</th>
<th>Actuator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashes green</td>
<td>Moves from closing or turning position to tilt position</td>
</tr>
<tr>
<td></td>
<td>Moves from closing position to parallel action position</td>
</tr>
<tr>
<td></td>
<td>In tilt position for 10-minute ventilation period</td>
</tr>
<tr>
<td>Lights up green for 5 seconds</td>
<td>Once tilt position is reached</td>
</tr>
<tr>
<td></td>
<td>Once parallel action position is reached</td>
</tr>
<tr>
<td>Flashes red</td>
<td>Closes from any position</td>
</tr>
<tr>
<td>Sustained red light</td>
<td>Once turning position is reached</td>
</tr>
<tr>
<td>Off</td>
<td>Once closed position is reached</td>
</tr>
<tr>
<td>Flashes yellow</td>
<td>During a fault*</td>
</tr>
<tr>
<td></td>
<td>After a power failure*</td>
</tr>
<tr>
<td></td>
<td>After emergency release*</td>
</tr>
</tbody>
</table>

*The fault message is acknowledged by pressing any button or infra-red remote control*
8.5 Manual emergency operation/release
8.6 Mounting the casing after emergency operation/release

- The indicator on the motorised handle pressure key indicates the position of the hardware. The position of the marking is similar to the position of a normal window handle.
- After manual emergency operation, make sure that the hardware and motor position (indicator) are aligned when the MH10 is reinserted onto the square.
- Acknowledge the yellow flashing LED by pressing any button

9. Troubleshooting

Under no circumstances should you attempt to open and/or repair the unit yourself.

If you cannot solve the problem using the information listed in the table below, please contact your window specialist or the SIEGENIA advice service directly on +49 271 3931-0

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH10 not responding (LED on MH10 is off)</td>
<td>MH10 not taught in</td>
<td>See &quot;7. Setup&quot;</td>
</tr>
<tr>
<td>MH10 not responding (LED on MH10 flashes red)</td>
<td>No power supply</td>
<td>Consult specialist</td>
</tr>
<tr>
<td></td>
<td>MH10 incorrectly connected (polarity reversed)</td>
<td></td>
</tr>
<tr>
<td>MH10 cancels the closing process and attempts to close the window again after some time</td>
<td>Strong wind pressure on the window sash</td>
<td>Three attempts will be made. After that, the actuator switches to fault. The closing process must then be restarted</td>
</tr>
<tr>
<td>Fault message (LED on MH10 flashes yellow)</td>
<td>Locking edge protection was triggered</td>
<td>Remove obstruction, operate actuator -&gt; LED switches off</td>
</tr>
<tr>
<td></td>
<td>Locking edge protection is defective</td>
<td>Consult specialist to examine the locking edge switch strips</td>
</tr>
</tbody>
</table>
Table: Problem, Possible cause, Solution

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fault message (LED on MH10 flashes yellow)</td>
<td>Power failure</td>
<td>Operate actuator -&gt; LED switches off</td>
</tr>
<tr>
<td></td>
<td>Overcurrent shutdown -&gt; Window hardware is too heavy to operate</td>
<td>Consult specialist to service hardware</td>
</tr>
<tr>
<td></td>
<td>Overcurrent shutdown -&gt;: Obstruction in the rebate area</td>
<td>Remove obstruction, operate actuator -&gt; LED switches off</td>
</tr>
<tr>
<td></td>
<td>Overcurrent shutdown -&gt; Wrong end positions after emergency release</td>
<td>Remove actuator casing and set hardware to the correct position (see &quot;8.6 Mounting the casing after emergency operation/release&quot;)</td>
</tr>
<tr>
<td></td>
<td>The hardware is unable to move from 0-180°</td>
<td>Consult a specialist to examine the hardware settings</td>
</tr>
<tr>
<td></td>
<td>Hall sensor for determining position is buckled or snapped off</td>
<td>Consult specialist</td>
</tr>
</tbody>
</table>

10. Accessories

<table>
<thead>
<tr>
<th>Material number</th>
<th>Material description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GZFB0010-025011</td>
<td>Infra-red remote control, 2x AAA batteries</td>
</tr>
<tr>
<td>GZKT0010-021010</td>
<td>Separable cable transfer inc. plug connector and cable (for motor functions only)</td>
</tr>
<tr>
<td>GANS0010-023010</td>
<td>Wall power supply, 24 V DC, 1 A, including cable and connecting clamp</td>
</tr>
<tr>
<td>GANE0060-021010</td>
<td>VPS 1 power pack, 24 V DC, 1 A, for installation in flush-mounted box</td>
</tr>
</tbody>
</table>
11. Maintenance and cleaning

Battery replacement with the infrared remote control

- If, when a button is pressed, no function is carried out or the function indicator does not light up, the battery must be replaced.
- Used batteries must be disposed of in an environmentally safe manner - batteries must not be disposed of with household waste!
- Insert 2 new batteries of one of the following types: Micro (AAA) LR03 as indicated on the bottom of the battery compartment. Then close the battery compartment.

Cleaning the casing

- To clean the MH10 outer casing, use a soft, slightly damp cloth.
- Do not use any corrosive chemicals, aggressive cleaning agents or substances containing solvents to clean the unit, as this could damage the surface of the casing.
- Do not allow water to enter the unit, as this can damage the electronics.

12. Technical specifications

<table>
<thead>
<tr>
<th>Supply</th>
<th>24 V DC, ± 15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current consumption</td>
<td>1 A</td>
</tr>
<tr>
<td>Angle of tilt</td>
<td>0°, 90°, 180°</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-5°C to +74°C</td>
</tr>
<tr>
<td>Torque</td>
<td>10 Nm</td>
</tr>
<tr>
<td>Protection category</td>
<td>IP 40</td>
</tr>
<tr>
<td>Connection</td>
<td>5 m (PVC cable)</td>
</tr>
</tbody>
</table>

![Technical specifications diagram]
13. Information concerning product liability

**Intended use**

Any use of this product that is not in accordance with its correct use, or any adaptation of or modification to the product and its associated components for which our express consent has not been obtained, is strictly prohibited. We accept no liability whatsoever for any material losses or injury to people caused by failure to comply with this stipulation.

**Product liability**

Our products are guaranteed – subject to correct installation and proper use – for a period of one year from the date of receipt by a company (according to our general terms and conditions) or as otherwise agreed, and for a period of two years for end consumers, in accordance with statutory provisions. As part of our ongoing improvements, we reserve the right to replace individual components or entire products. Consequential damages resulting from defects are excluded from the warranty within the limits of the law. The warranty shall become void if modifications that are not authorised by us or have not been described in this documentation are performed on the product and/or individual components, or if the product and/or individual components is/are dismantled or partly dismantled, and the defect is due to the changes made.

**Disclaimer of liability**

The product and its components are subject to stringent quality controls. As a result, they function reliably and safely when used correctly. Our liability for consequential losses and/or claims for damages is excluded, except in the case of wilful misconduct or gross negligence, or where we are responsible for injury to life, physical injury or damage to health. Strict liability under the German Product Liability Act (Produkthaftungsgesetz) remains unaffected. Liability for the culpable violation of significant contractual obligations also remains unaffected; liability in this case is limited to damages that are specific to the contract and that could have been foreseen. The above regulations do not imply a change in the burden of proof to the detriment of the consumer.

**Environmental protection**

Although our products do not fall within the scope of the German Electrical and Electronic Equipment Act, SIEGENIA will continue to meet the requirements of this Act and will endeavour to completely eliminate the use of substances that are hazardous to the environment as soon as this becomes technically feasible. Electrical products should not be disposed of as household waste.

14. Feedback on documentation

We welcome your comments and suggestions on how to improve our documentation. Please email your comments to dokumentation@siegenia.com.
15. EC declaration of incorporation

Manufacturer: SIEGENIA-AUBI KG
Hardware and ventilation technology
Duisburger Straße 8
D-57234 Wilnsdorf

declares that the product: Motorised handle
Device type
MH10
Designation of type

meets the following fundamental requirements:
EC Machinery Directive 2006/42/EC
Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC

The machine may only be put into operation when incomplete if it has been ascertained, if applicable, that the machine into which it is to be installed conforms to the specifications of the Machinery Directive.

The specific technical documentation has been drafted in accordance with Annex VII Part B of the EC Machinery Directive 2006/42/EC.

We undertake to provide such documentation to market surveillance authorities in electronic format within a reasonable time upon reasoned request. The aforementioned technical documentation can be obtained from the manufacturer.

Siegen, 2015-02-24
S. Bauerdick (Works management)

The technical documents are provided by SIEGENIA-AUBI KG.

This declaration certifies conformity with the directives cited but does not warrant properties in the legal sense.
The safety instructions in the product documentation supplied must be followed.
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