



inVENTer

Operating Instructions

MZ-Home



Control device



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Disclaimer

This documentation represents a translation of the original German operating instructions. The information on access to the operating instructions must be passed on to third parties when the system is handed over.

The content of this documentation has been checked for compliance with the described components. Nevertheless deviations may still occur, therefore no guarantee of compliance can be provided.

This documentation describes the functionality of the standard scope.
For reasons of clarity, the documentation does not purport to cover all details on all types of the product and cannot cover every conceivable scenario for commissioning, operation, cleaning and care.

The illustrations in this document may differ slightly from the design of the product that you have purchased. The same functionality is ensured despite any design deviations.

This documentation is updated regularly. Necessary corrections and appropriate supplements are always included in subsequent editions. You can find the latest version at **www.inventer.eu/downloads**.

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1 User and safety instructions

Thank you for purchasing this high quality product from inVENTer!

This section provides an overview of the basic safety precautions for safe and proper operation of your controller.

1.1 User information

Safety and warning instructions

The safety and warning instructions in these operating instructions have a uniform structure and are marked with a symbol on the left side of the instruction. A signal word in front of the text also indicates the hazard level. If several hazard levels exist, the highest level safety instruction is always used.

The safety and warning instructions contain the following information:



SIGNAL WORD: Type and origin of the danger. Possible consequences of the danger!
Measures to avoid the danger.

The signal word indicates the severity of the potential danger unless the preventive measures are taken:



WARNING means: Possible danger of serious injury or death.



CAUTION means: Direct danger of minor/significant injury.



NOTICE means: Direct or possible risk of property damage due to an adverse event.

If you see these signs, ensure you observe the described measures to prevent possible hazards and/or damage.

Other symbols used in this documentation

In addition to the safety instructions, the following symbols are used:



A **TIP** symbol indicates practical and useful tips for handling your controller.



Action required: This prompts the user to perform a specific action.



Check the results: This requires to check the results of the action you have performed.



Action focus: To be taken into account in the corresponding step.

1.2 Safety instructions

The operating instructions are part of your MZ-Home controller and must be available at all times (see www.inventer.eu/downloads). When handing the system to a third party, the information regarding access to the operating instructions must be handed over also.

Before performing any work on the equipment/system, read the operating instructions carefully and observe all notices in this section. Also note the safety instructions that precede the described handling instructions.

Non-observance of safety instructions could result in injury and/or property damage.

Intended use

The MZ-Home control device (also referred to in the further text as "controller") must only be used to control decentralised iV ventilation devices with heat recovery from inVENTer GmbH.

Specifically, the following must be used:

- The MZ-Home controller for controlling the inVENTer ventilation devices with heat recovery integrated into the system.
- The sensor technology paired with the controller (HYG18 humidistat, HYG12 humidistat, CS1 pressure monitor) for the delivery of temperature, humidity and CO₂ values to the MZ-Home controller, which in turn uses these values to control the inVENTer ventilation devices with heat recovery.

Requirements for intended use

- Use the devices integrated into the ventilation system only in accordance with the applications that are described in this documentation and only in conjunction with the components that are recommended, approved and named by inVENTer GmbH in this documentation. Changes or modifications to the units are not permitted.
- Your ventilation system is exclusively designed for use in ambient temperatures between -20 and 50 °C.
- Proper operation and maintenance are required for trouble-free and safe operation of the equipment / system.
- These operating instructions are only valid in conjunction with the operating instructions of the corresponding ventilation device with heat recovery and supplement these. All legal notices that are listed in the respective operating instructions also apply without restriction to this document.



- **CAUTION:** The MZ-Home controller must not be operated or cleaned by children and/or persons who are not able to do so safely due to their physical, sensory or mental abilities, inexperience or lack of knowledge, unless they are supervised by a person responsible for their safety or have received instructions from them on how to operate the system. Small children must be supervised to ensure that they do not play with the system's devices.



- **NOTICE:** The controller has scratch-sensitive plastic surfaces. Do not touch the components with oily and/or dirty hands. Avoid contact with sharp or pointed objects, e.g. rings.

Any kind of use other than the intended use will exclude all liability claims.

Improper use

The MZ-Home controller is intended exclusively for the control of the ventilation units specified in the section on intended use. Any other use is strictly prohibited.

2 System overview: MZ-Home controller

The MZ-Home controller is an electronic programming device for controlling inVENTer® ventilation devices with heat recovery.

It features Clust-Air technology (multi-zone control), touch operation and a wide variety of possible uses.

The MZ-Home consists of an operating unit and (at least one) up to four Clust-Air modules. Each Clust-Air module controls the ventilation devices in one zone within the accommodation unit. This allows the MZ-Home to provide individual ventilation for up to four different areas (ventilation zones) within one accommodation unit. The settings can be made separately for each zone.

On the MZ-Home controller, the operating mode of the ventilation unit, the setting of the air flow volume, the programming of a 7-day timer and the humidity monitoring is set separately for each zone.

An external interface also allows the scope of functions to be extended:

- Demand-based ventilation via sensor technology (CO₂ sensor, VOC sensor¹⁾ [NO]), or
- Integration of a safety device (e.g. pressure monitor, [NC]) with simultaneous operation of the ventilation devices with fireplaces.
- Integration of the MZ-Home controller into an existing building management system via an analogue input (DC voltage)

Features

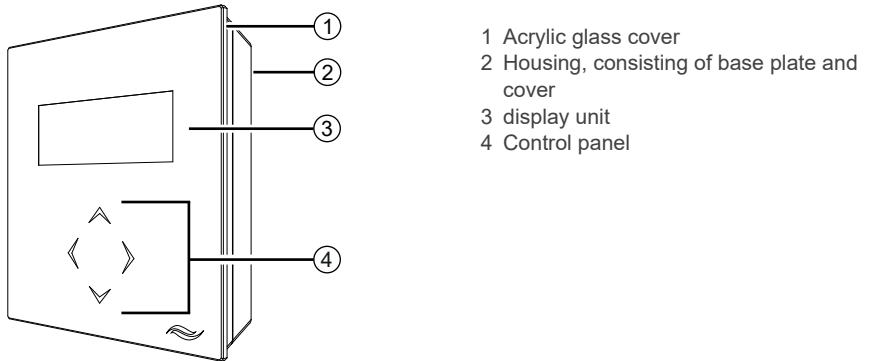
- Intelligent Clust-Air® technology for control of up to four different areas (zones) within the accommodation unit
- Illuminated display unit
- Easy operation through capacitive buttons (navigation arrows)
- Control of the ventilation system in the operating modes heat recovery, ventilation and off
- Dehumidification function: Automatic humidity monitoring via sensors for automatic dehumidification depending on the relative air humidity of the interior
- Individual definition of the output levels of the reversible fans
- Pause function for temporarily switching off the ventilation units in a ventilation zone
- Interface for an external input or connection to a home automation system
- Option to connect additional sensors via a potential-free input: CO₂ sensor, VOC sensor or pressure sensor (fireplace switch)
- Integrated hours-run counter
- Filter change reminder

2.1 Construction

The MZ-Home controller consists of a programming unit and at least one up to a maximum of 4 Clust-Air module(s).

Operating unit

The operating unit is installed on the interior wall. It serves as an operating and display interface for the user.



- 1 Acrylic glass cover
- 2 Housing, consisting of base plate and cover
- 3 display unit
- 4 Control panel

Figure 1: MZ-Home operating unit front view

Clust-Air module® CAM17

In addition to the operating unit, one Clust-Air module is installed per ventilation area (zone). This contains the electronics for the zone to be controlled and is mounted in it. After installation, it is covered with a switch design cover or wallpapered over so that it is no longer visible.

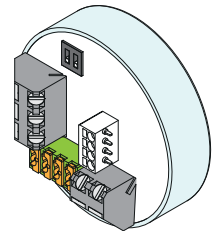


Figure 2: Clust-Air module front view

The Clust-Air modules make it possible to divide the accommodation unit individually into different ventilation areas (zones). Each Clust-Air module is assigned to a zone and can be controlled separately. A Clust-Air module enables the control of up to four inVENTer® ventilation devices with heat recovery and the connection of another external sensor (digital or analogue).

The Clust-Air module contains a humidity and temperature sensor. It is installed in separate housing in the room air flow and connected to the Clust-Air module for the appropriate zone. The relative humidity of the zone is continuously measured by the humidity and temperature sensor for each Clust-Air module. The controller is thus capable of automatically switching to dehumidification mode and back again when the relative room air humidity crosses specified limits. This ensures a healthy indoor climate that suits your needs is reached without requiring manual input.

2.2 Function

The MZ-Home controller is a control device for decentralised ventilation devices with heat recovery from inVENTer GmbH.

Thanks to its unique Clust-Air technology (zone control), the MZ-Home controller is able to control up to four areas (zones) within an accommodation unit separately from each other. For each zone, the operating mode and output level can be set manually or via a 7-day timer. Due to the automatic humidity monitoring, the controller also has demand-controlled ventilation if the interior humidity values are too high.

If connected, the information transmitted to the corresponding Clust-Air module by means of external sensors, e.g. CO₂ sensor, is also included in the control of the ventilation devices in a zone.

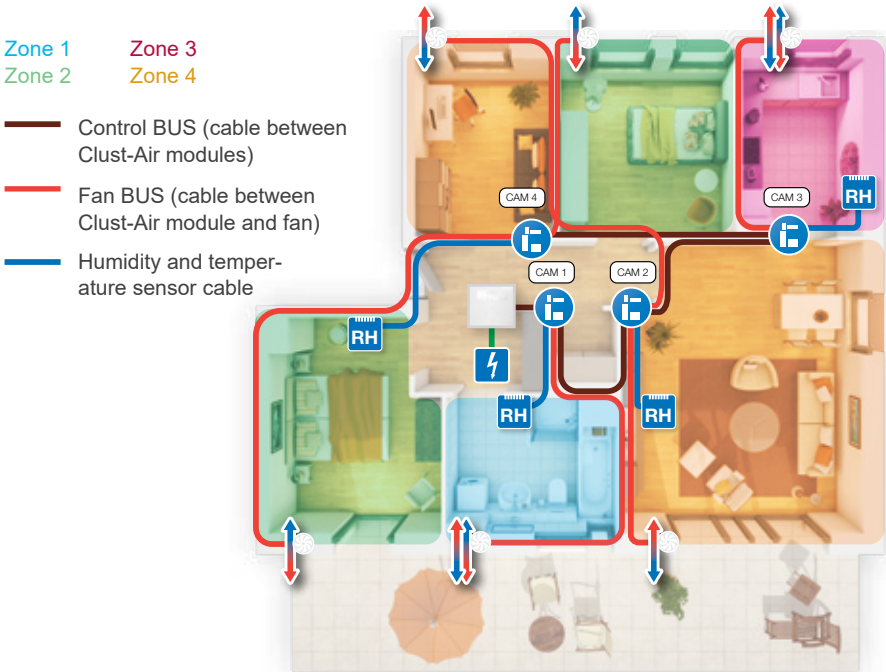


Figure 3: MZ-Home controller functional principle

MZ-Home controller without connected external interface

If no sensor is connected, the operating modes heat recovery, continuous ventilation and OFF, as well as the pause function, can be set individually for each zone on the MZ-Home controller by 7-day timer or manually. For automatic humidity monitoring, if connected, the information transmitted to the corresponding Clust-Air module by means of sensors is included in the control of the ventilation units of a zone.

On the controller, three ventilation stages each for heat recovery and ventilation, as well as a output level for the automatic dehumidification function can be defined and saved. These can be changed to between 25 % and 100 % of the fan speed of the reversing fan in 5 % steps. The new setting takes effect immediately, so that adjustments can be made purely by listening to changes in the sound level.

In addition, the brightness and the display duration of the display unit can be adjusted. This setting is also effective immediately.

Heat recovery mode



The reversible fans of the ventilation devices operated in pairs change their direction of rotation every 70 seconds. The integrated thermal accumulator charges itself with the heat energy from the room's warm air as it flows to the outside (extract air). When the fan changes direction, it releases the stored heat energy into the incoming outdoor air (supply air).

Select "Heat recovery" as the default operating mode. During the heating periods, the outdoor temperature is cooler than the temperature of the air inside. The outdoor air flowing in is pre-warmed by being fed over the ceramic thermal accumulator before making its way indoors. On summer days, this is also recommended. The higher outdoor temperature compared to the indoor temperature means that the supply of heat is significantly reduced during ventilation.

Continuous ventilation mode



In this mode, the reversible fans do not change their direction of rotation. This means that no heat recovery takes place.

Select "Continuous ventilation" to cool the room on summer nights, or to quickly remove stale or humid indoor air.

Automatic humidity monitoring

The dehumidification function is only enabled when the sensor technology is triggered.

If the relative humidity in the interior exceeds the predefined limit value (can be changed on the controller), all ventilation units connected to the Clust-Air module for the respective zone are switched to continuous ventilation mode with the air flow volume defined on the controller for dehumidification. If the value falls below the limit value, the MZ-Home switches back to the previously set operating mode and output level after a 20-minute run-on time.

Pause function

The reversing fan of the ventilation unit is switched off for a set period of time. The ventilation units do not work and there is no exchange of air. Select the "Pause function", for example, before going to bed. Following the temporary pause, the fans restart independently at the selected output level and in the pre-set operating mode. You should therefore leave the inner cover open.

OFF mode

The reversing fan of the ventilation unit is permanently switched off. The ventilation units do not work and there is no exchange of air.

MZ-Home controller with extended functions (external interface assigned on CAM)

If the external interface on the Clust-Air module of the controller is assigned, the range of functions changes as follows for the corresponding zones:

- A: Demand-controlled ventilation via sensors, or
- B: Integration of a safety device (e.g. pressure monitor) with simultaneous operation of the ventilation devices with fireplaces, or
- C: Integration of the ventilation system into an existing building management system.

In all configurations, all of the controller's functions are available without a connected external interface.

A: Demand-controlled ventilation via sensors

If sensors are connected to the MZ-Home controller's Clust-Air module, the range of functions is extended. In addition to automatic humidity monitoring, further demand-controlled ventilation is possible.

Sensor	Input	Limit value exceeded	Limit value not reached
CO ₂ sensor VOC sensor ¹⁾	External switching contact (Ext. switch)	Change all ventilation units on the Clust-Air module to continuous ventilation mode.	Change all ventilation units on the Clust-Air module to the originally set operating mode.



If the predefined limit value (can be changed on the corresponding sensor) is exceeded, the sensor transmits a control signal to the respective Clust-Air module. The controller then switches all ventilation devices connected to the Clust-Air module to ventilation mode.

The function remains active until the corresponding parameter falls below the pre-set limit again. Then all ventilation devices connected to the Clust-Air module switch to the originally set operating mode and output level.

- If a CO₂ sensor is connected, the CO₂ content in the interior is continuously measured. A CO₂ sensor can be ordered as an optional accessory.
- If a VOC sensor¹⁾ is connected, the composition of the air in the interior and the resulting air quality are measured continuously.



When connecting an external sensor to the Clust-Air module, the **Ext. Switch** input must be selected in the **settings** main menu for the respective zone (📖 4.7).

¹⁾ VOC = volatile organic compounds

B: Integration of a safety device

In addition to humidity control, it is possible to integrate a safety device (e.g. a 4 Pa pressure sensor) when the ventilation system is operated simultaneously with fireplaces.

Sensor	Input	Limit value exceeded	Limit value not reached
Pressure sensor (4 Pa)	Fireplace switching contact (normally closed or normally open contact)	Switch all ventilation units connected to the controller to OFF mode.	Switch all ventilation devices connected to the controller to the originally set mode.



WARNING: For joint operation with fireplaces, safety measures must be taken to prevent a negative pressure from developing in the building.

- The responsible chimney sweep and/or building planner decides which measures need to be carried out.

If an external pressure sensor (4 Pa pressure sensor) is integrated, the air pressure in the interior is continuously monitored. As soon as this exceeds the safety-relevant limit, the sensor transmits this to the controller. This then switches all connected ventilation devices off. The function remains active until the air pressure drops below the safety-relevant limit again. Then all ventilation devices connected to the controller switch to the originally set operating mode and output level.



Both a normally closed contact and a normally open contact can be used as a pressure sensor.

When integrating a safety device into the ventilation system, the input **Fireplace switch** must be selected for the respective zone in the main **settings** menu. In addition, the switch function (NO contact, NC contact) must be defined (📖 4.7).

C: Integration into the building management system (analogue input)



It is not possible to connect a potential-free switch and an analogue input to a single Clust-Air module simultaneously. A connected analogue input always has priority over a potential-free switching contact.

If the interface is used as an analogue input, the ventilation unit can be integrated into an existing building management system. For this purpose, depending on the desired function, a predefined DC voltage is set in the building management unit for each Clust-Air module. The control voltage should have a resolution of 10 bits.

Depending on the control voltage, the following functions are available:

Function	Control voltage [V DC]
Manual control	$0.00 \leq U \leq 0.50$
Pause function	$1.00 \leq U \leq 1.50$
Heat recovery output level 1	$2.00 \leq U \leq 2.50$
Heat recovery output level 2	$3.00 \leq U \leq 3.50$
Heat recovery output level 3	$4.00 \leq U \leq 4.50$
Continuous ventilation level 1	$6.00 \leq U \leq 6.50$
Continuous ventilation level 2	$7.00 \leq U \leq 7.50$
Continuous ventilation level 3	$8.00 \leq U \leq 8.50$



When connecting an analogue input to the Clust-Air module, the **Analogue** input for the respective zone must be selected in the **settings** main menu (📖 4.7).

Deactivating the interface

The interface on the Clust-Air module can be deactivated in the **settings** main menu (📖 4.7).

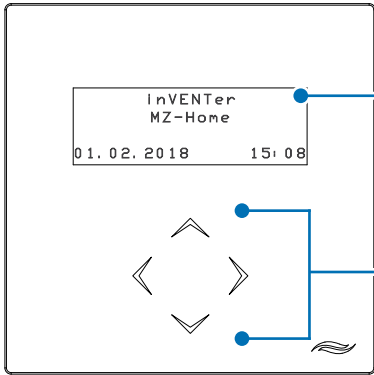
2.3 MZ-Home controller factory settings

The MZ-Home controller is configured with the following default settings:

Feature	Specification	Value
Ventilation level		
Ventilation level 1	All zones	25 %
Ventilation level 2	All zones	35 %
Ventilation level 3	All zones	60 %
Ventilation level _EF	All zones	75 %
Operating mode		
Heat recovery	All zones	
Limits		
Humidity	All zones	80 %
7-day timer		
Zone 1 ... n	All zones	OFF
Operating mode	All weekdays	Heat recovery
Ventilation level	All weekdays	1
Inputs		
Zone 1 ... n	All zones	OFF
Filter change		
Interval		14 weeks
Display		
Screen brightness		99 %
Interval screen display		20 seconds
Language		
		German

3 Operating and display elements: Overview

3.1 Overview of operating unit



Display unit:

The display unit in the upper part of the operating unit is a liquid crystal display with backlighting. It consists of four lines of 20 characters each and displays functions and parameters.

The screen display switches off automatically after 20 seconds without operation.

Navigation arrows:

The 4 navigation arrows in the lower part of the operating unit are capacitive buttons. Touching any navigation arrow activates the display unit in the upper area of the operating unit, the start screen is displayed and the controller can be operated.

Figure 4: Front of operating unit

3.2 Output display in the 7-day timer menu

The **7-day timer** submenu contains a 24-hour display of the output levels for the respective zone. It serves as a guide for programming the 7-day timer.

If the menu for programming the 7-day timer is called up, the 24-hour display is in the fourth line. It is adjusted immediately after a change to the 7-day timer. This makes it easy to check whether the changed settings are effective.

The display consists of 12 bars. Each bar corresponds to an interval of 2 hours, starting with the interval 0 – 2 o'clock (left bar), ascending in 2 hour steps.

The last bar (right bar) corresponds to the interval 22 - 24 hrs.

The height of the bar indicates the output level at which the controller is set at the time in question.

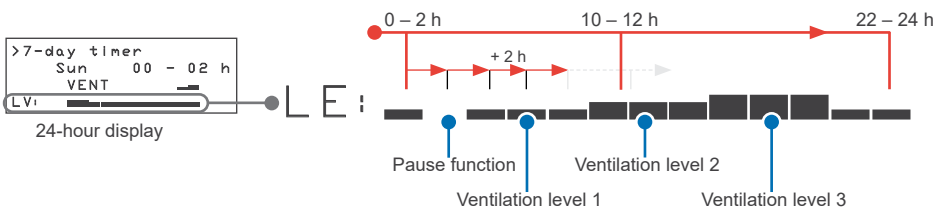


Figure 5: 7-day timer submenu - display unit line 4

3.3 Start screen

The start screen is the standard display when the MZ-Home controller is activated.

The start screen displays the inVENTer logo, the current date and time. Depending on the situation, current deviations are displayed on the start screen (e.g. no humidity sensor connected to a zone).

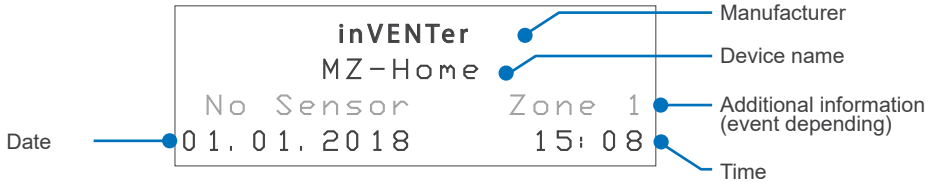


Figure 6: MZ-Home controller start screen



The start screen switches itself off after 20 seconds (factory setting) without any input.

The display and setting menus can be selected from the start screen:

Menu navigation

Touch the navigation arrows on the control panel to select the menu:

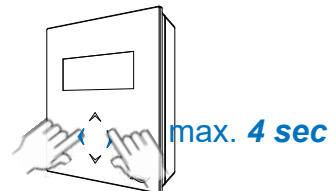
- Navigation arrow ▾: You reach the manual control.
Here, the 7-day timer settings can be overridden for 1 – 8 hours. When the 7-day timer is deactivated, the output level and operating mode are set here.
- Navigation arrow ▷: You reach the following main menus:
 - Zone display main menu (📖 4.2).
 - Settings main menu (📖 4.3 ff.).
- Navigation arrow ◀: You switch through the main menus in reverse.

To return from submenus to the respective higher-level menu, use the navigation arrow △ to select the first line of the menu and touch the navigation arrow ◀.

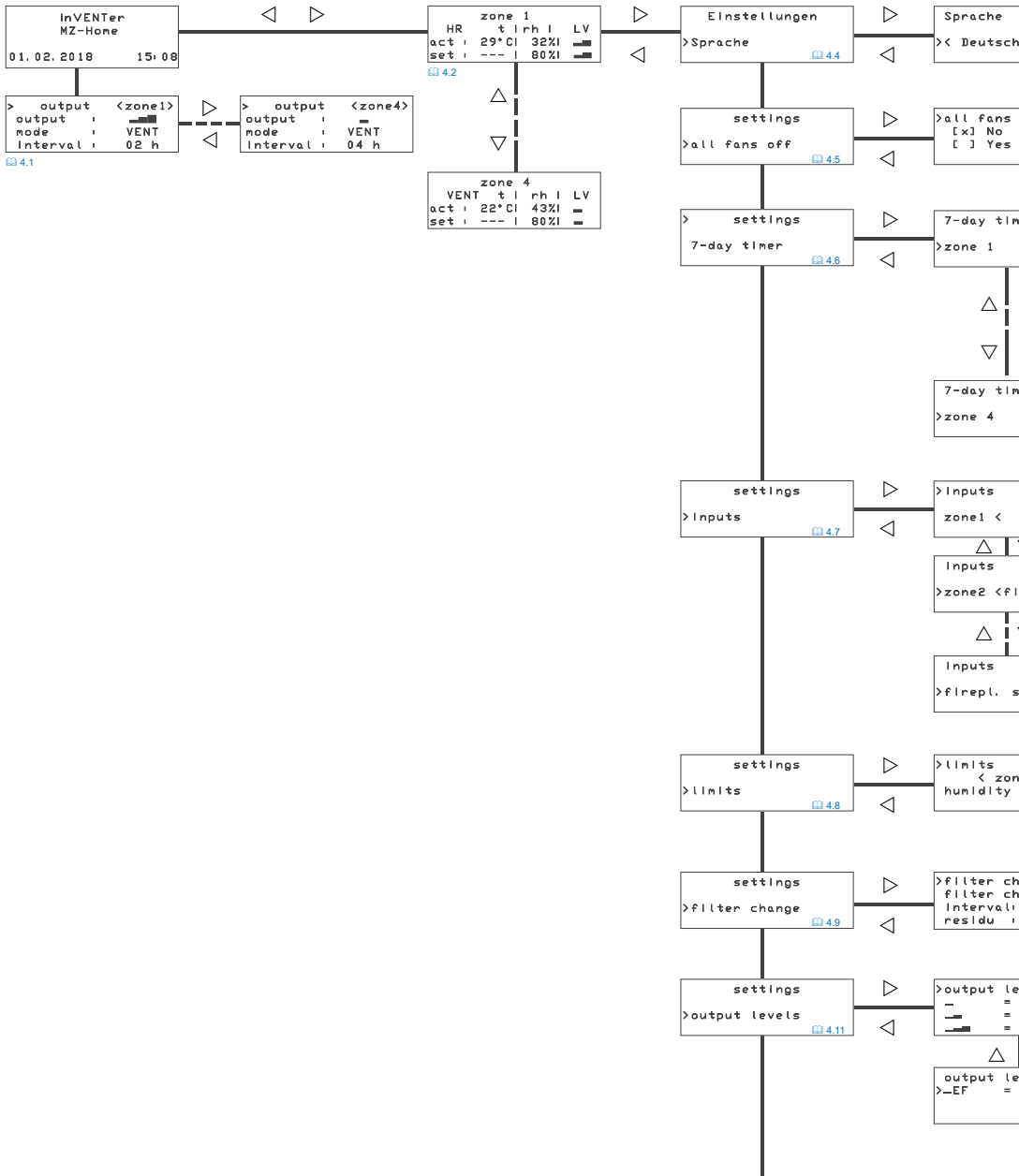
Home function

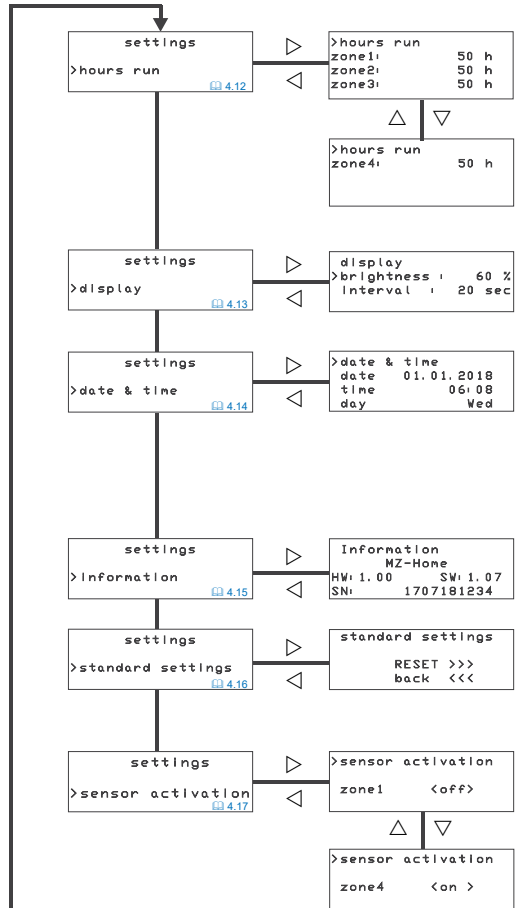
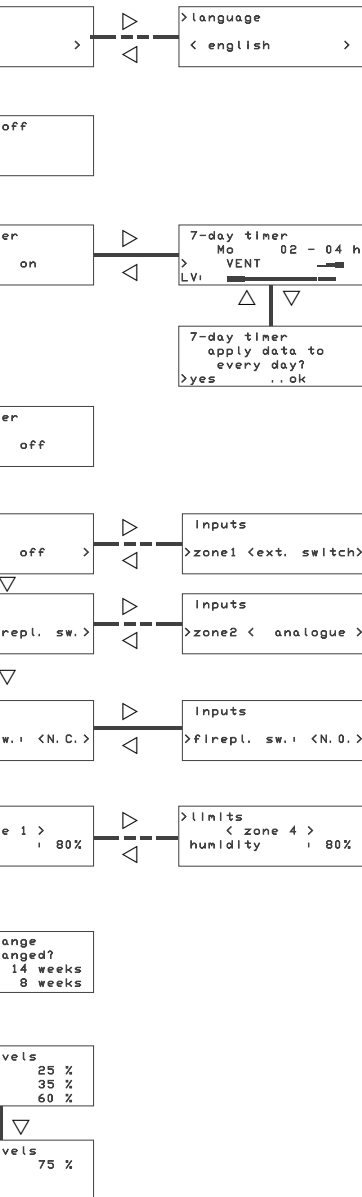


By **briefly** touching the navigation arrows ◀ and ▷ **simultaneously**, you can **return to the start screen** from any screen.



3.4 Overview of the MZ-Home menu structure





4 Operation

4.1 Carry out manual control

In addition to the pre-programmed settings of the 7-day timer, the parameters for each zone can be controlled manually depending on the situation in the menu for manual control.


Manual control has priority over the settings of the 7-day timer. The entries of the manual control overwrite the programming of the 7-day timer for the set duration. A permanent change does not take place!

```
>  output  <zone1>
   output  : ██████
   mode    : VENT
   interval: 02 h
```

```
>  output  <zone1>
   output  : ██████
   mode    : HR
   interval: 02 h
```

Requirements:

- The start screen is displayed.
- ▶ Touch the navigation arrow ▾.
⇒ The **output** main menu is displayed.
- ▶ Select with the navigation arrows ◀ / ▶ to select the zone.
- ▶ Use the navigation arrow ▾ to select the menu item **output**.
⇒ The **output level indicator** flashes.
- ▶ Touch the navigation arrows ◀ / ▶, to set the output level.

 If the Pause function is selected (display off), the MZ-Home switches back to the previously passed operating mode (not the previously active/set one) after the selected interval has elapsed! Select the Pause function mode:

- with the navigation arrow ◀ so that the MZ-Home controller switches to heat recovery operating mode after the pause.
- with the navigation arrow ▶ so that the MZ-Home controller switches to continuous ventilation mode after the pause.

```
output  <zone1>
output  : ██████
>mode   : HR
interval: 02 h
```

- ▶ Use the navigation arrow ▾ to select the menu item **mode**.
⇒ The **operating mode indicator** flashes.
- ▶ Touch the navigation arrows ◀ / ▶, to set the operating mode.

```
output  <zone1>
output  : ██████
mode    : HR
>interval: 02 h
```

- ▶ Use the navigation arrow ▾ to select the menu item **interval**.
⇒ The **interval indicator** flashes.
- ▶ Touch the navigation arrows ◀ / ▶, to set the interval for which manual override is used.

⇒ Manual control is active; the 7-day timer settings are inactive for the selected duration of the override.

4.2 Main menu zone display

No settings can be made in the main menu **zone display**.

This is a display menu that shows the currently set parameters for each zone. The settings made for manual override can also be viewed here.

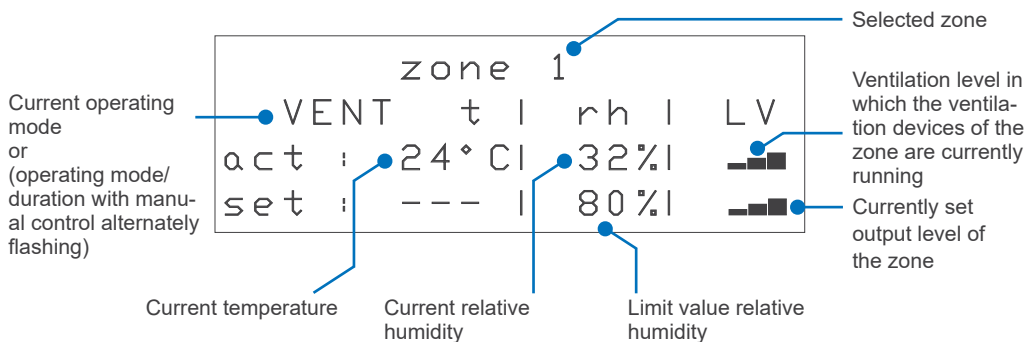


Figure 7: Structure of the zone overview screen using the example of zone 1

Menu navigation

Touch the navigation arrows on the control panel to select the menu:

- Navigation arrow ∇ / \triangle : You select the ventilation zone for which the parameters are displayed.
- Navigation arrow \triangleright : The settings main menu appears.
- Navigation arrow \triangleleft : You return to the start screen.

4.3 Settings main menu



Figure 8: First screen in the **settings** menu of the MZ-Home controller

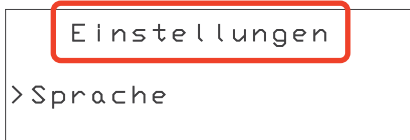
In the settings main menu, you can adjust the following functions and parameters of your MZ-Home controller:

- language
- switch off all ventilation units
- 7-day timer
- inputs
- limits
- filter change
- output levels
- hours run
- display
- date & time
- information
- sensor activation

By touching the navigation arrows \triangle or ∇ to select the individual menu items.

By touching the navigation arrow \triangleright to open the menu displayed on the screen. Settings can be made.

Call up the settings main menu



Requirements:

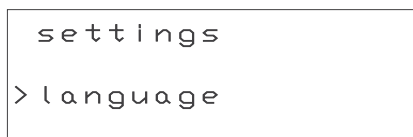
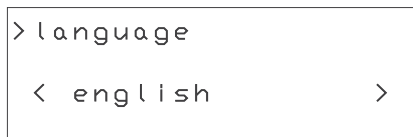
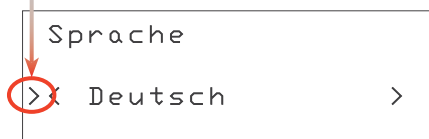
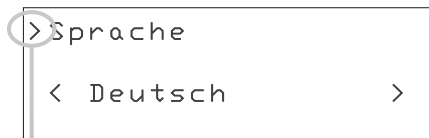
- The start screen is displayed.
- ▶ Touch the navigation arrow \triangleright three times.

⇒ The **settings** main menu is called up.

4.4 Change language



Six languages are available on your MZ-Home controller. German is the default language at the factory. Further languages can be retrofitted. Contact your factory representative if necessary.



Requirements:

- You are in the settings main menu.
- ▶ Touch the navigation arrow ▾ until the **language** menu item is displayed.
- ▶ Touch the navigation arrow ▷.
 - ⇒ The **language** submenu is called up.
- ▶ Touch the navigation arrow ▾.
 - ⇒ The marker arrow > points to the currently set language.
- ▶ Use the navigation arrow ▷ to select the desired language (e.g. English).
- ▶ Confirm the selection (e.g. English) with the navigation arrow △.
 - ⇒ The marker arrow > points to the menu item **language**.
 - ⇒ The selected language is set.
- ▶ Touch the navigation arrow ◀, to return to the settings menu.
 - ⇒ You have changed the language setting.

4.5 Switching ventilation devices on and off globally

The option allows you to switch the ventilation devices of all ventilation zones on or off simultaneously, e.g. for cleaning work.

Requirements:

- You are in the settings main menu.

```

settings
>all fans off
  
```

- ▶ Touch the navigation arrow ▾ until the menu item **all fans off** is displayed.

```

>all fans off
  [x] No
  [ ] Yes
  
```

- ▶ Touch the navigation arrow ▷.
- ⇒ The **all fans off** menu is called up.
- ▶ Use navigation arrows △ / ▾ to select the desired option.

```

>all fans off
  [x] No
  [ ] Yes
  
```

- ▶ Touch the navigation arrow ▷ to activate the desired function.
- ⇒ The active setting is marked with **x**.

Selected option	YES	NO
Display	<pre> >all fans off [] No [x] Yes </pre>	<pre> >all fans off [x] No [] Yes </pre>
Meaning	Switch all ventilation units connected to the controller to OFF mode.	Switch all ventilation devices connected to the originally set mode.

```

>all fans off
  [ ] No
  [x] Yes
  
```

- ▶ Touch the navigation arrow △ until the marker arrow > points to the menu item **all fans off**.

```

settings
>all fans off
  
```

- ▶ Touch the navigation arrow ◀ to return to the settings menu.

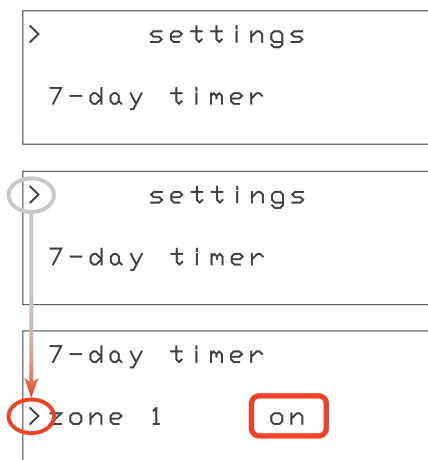
⇒ You have switched on/off all ventilation units connected to the control unit at the same time.

4.6 Programming the 7-day timer

In the **7-day timer** submenu, you can switch the 7-day timer on or off for each zone and set the weekly schedule for the 7-day timer.

Weekdays: Monday – Sunday
 Ventilation mode: Heat recovery (HR), Continuous ventilation (VENT), Pause function (Pause)
 Fan speed: Output level 1 – 3, Off

Activate (On) / deactivate (Off) 7-day timer



Requirements:

- You are in the settings main menu.
- Touch the navigation arrow ∇ until the menu item **7-day timer** is displayed.
- Touch the navigation arrow \triangleright .
 ⇨ The **7-day timer** submenu is called up.
- Use the navigation arrow ∇ to select the zone to be activated (e. g. zone 1).
 ⇨ The marker arrow $>$ points to the currently selected zone.
- Touch the navigation arrow \triangleright .
 ⇨ The display of the **currently set parameter** flashes.

With the navigation arrows \triangle / ∇ you can switch between the **options On and Off**.

Selected option	On	Off
Display	<pre> 7-day timer >zone 1 on </pre>	<pre> >7-day timer zone 1 off </pre>
Confirm option	<ul style="list-style-type: none"> Touch the navigation arrow \triangleright to activate the 7-day timer. ⇨ The 7-day timer submenu, in which settings are made, is called up. 	<ul style="list-style-type: none"> Touch the navigation arrow \triangleleft to confirm the selection. ⇨ The 7-day timer is deactivated. ⇨ The manual control defaults are active.
	<pre> 7-day timer Mo 02 - 04 h > HR █ LV: █ </pre>	<p>i The active settings can be viewed in the Manual control menu (18).</p> <pre> > output <zone1> output : █ mode : VENT interval : 02 h </pre>

Programming the 7-day timer

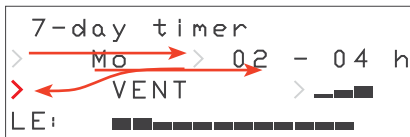


7-day timer settings can only be made if the 7-day timer option is activated (**On**) for the desired zone.

The programming of the 7-day timer is carried out separately for each specified time interval and each day of the week. Afterwards, the settings entered for one day of the week can be applied to the corresponding zone for all days of the week.

Use the navigation arrows ∇ / \triangle to navigate between the day of the week, operating mode, output level and time of day. No value should flash for this purpose.

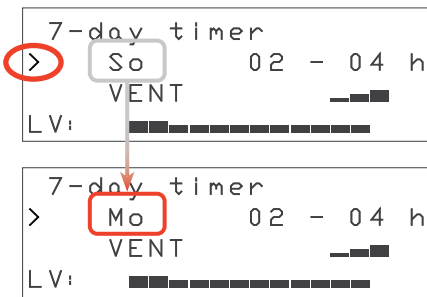
Programming procedure:



- ▶ Touch the navigation arrow ∇ .
⇒ The marker arrow (\triangleright) is set to the next menu item that can be set.

- Step 1: Set weekday
- Step 2: Set time interval
- Step 3: Set ventilation mode
- Step 4: Set fan speed
- Step 5: Transfer the data of the set weekday (all time intervals) for all weekdays in the corresponding zone

Step 1: Select weekday



Requirements:

- The 7-day timer for the selected zone is active.
- ▶ Use the navigation arrow ∇ to select the **day** menu item.
- ▶ Touch the navigation arrow \triangleright to confirm the selection.
⇒ The **day indicator** flashes.
- ▶ Select the day of the week with the navigation arrow ∇ / \triangle to select the day of the week.
- ▶ Touch the navigation arrow \triangleleft to confirm the selection.
⇒ The flashing stops.

⇒ You have selected the day of the week.

Step 2: Select time interval

The time interval defines the period in which the settings made are active. The time spans are given as time of day. The MZ-Home controller offers 12 time intervals in 2-hour increments per interval. The predefined time intervals cannot be changed.



Requirements:

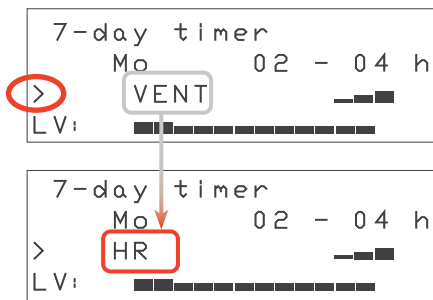
- The 7-day timer for the selected zone is active.

- ▶ Use the navigation arrow ∇ to select the menu item **time interval**.
- ▶ Touch the navigation arrow \triangleright to confirm the selection.
 - ⇒ The **time interval indicator** flashes.
- ▶ Select with the navigation arrow ∇ / \triangle to select the time interval.
- ▶ Touch the navigation arrow \triangleleft to confirm the selection.
 - ⇒ The flashing stops.

⇒ You have defined the time interval in which the parameters set in the following steps are valid.

Step 3: Set ventilation mode

This option allows you to set the operating modes heat recovery (HR), Ventilation (VENT), as well as the Pause function (sleep) for the selected time interval.



Requirements:

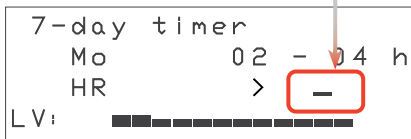
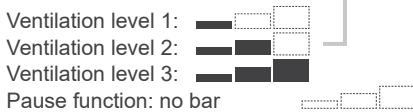
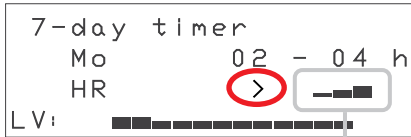
- The 7-day timer for the selected zone is active.

- ▶ Use the navigation arrow to select ∇ to select the menu item **ventilation mode**.
- ▶ Touch the navigation arrow \triangleright to confirm the selection.
 - ⇒ The **ventilation mode indicator** flashes.
- ▶ Use the navigation arrow ∇ / \triangle to select the desired ventilation mode.
- ▶ Touch the navigation arrow \triangleleft to confirm the selection.
 - ⇒ The flashing stops.

⇒ You have set the ventilation mode.

Step 4: Set fan speed

This option assigns the defined output levels 1 – 3 or the Pause function (off) to the time interval.



Requirements:

- The 7-day timer for the selected zone is active.
- ▶ Use the navigation arrow ∇ to select the **ventilation level** menu item.
- ▶ Touch the navigation arrow \triangleright to confirm the selection.
 - ⇒ The **ventilation level indicator** flashes.
- ▶ Use the navigation arrow ∇ / Δ to select the output level.
- ▶ Confirm the selection with the navigation arrow \triangleleft .
 - ⇒ The flashing stops.

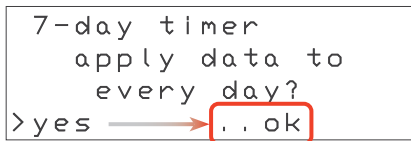
Step 5: Transfer data

If you have programmed or changed the settings for a zone, you can apply them within a zone for each day of the week.



Note here:

- It is only possible to transfer the settings of the complete day. It is not possible to transfer individual intervals.
- The data transfer only takes place for the current zone. Each zone must be programmed separately.



Requirements:

- The 7-day timer for a ventilation zone and a day of the week is programmed/has been changed.
- ▶ Touch the navigation arrow ∇ repeatedly until a new screen opens.
- ▶ Use the navigation arrow \triangleright to confirm the **YES** option.
 - ⇒ The screen displays **..ok**.
 - ⇒ The data was transferred.



By touching the navigation arrow Δ you can exit the menu without saving the changes. You return to the activated 7-day timer menu and can make further settings on the 7-day timer.

4.7 Activate/deactivate external interface

In the **inputs** submenu, the interface for optional sensors, e. g. the optionally available CO₂ sensor, can be activated and deactivated on the Clust-Air module.

The following table gives an overview of which input is selected for which sensor.

Sensor (optional)	Input
Building management system	Analogue
Pressure sensor (opener or closer possible)	Fireplace switch
CO ₂ sensor	Ext. switch
VOC sensor	Ext. switch



If a pressure sensor is installed and the input **fireplace switch** is selected, it must also be set whether it is a normally closed contact (NC) or normally open contact (NO).

Activate interface

```
settings
> inputs
```

```
> inputs
zone1 < off >
```

```
inputs
< zone2 < analogue >
```

```
inputs
> zone2 < firepl. sw. >
```

Requirements:

- You are in the settings main menu.
- The external interface is assigned.

► Touch the navigation arrow ▾ until the menu item **Inputs** is displayed.

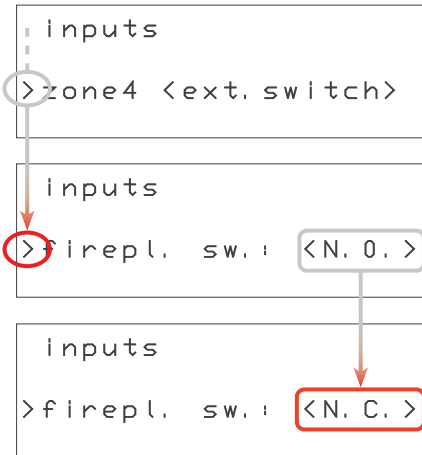
► Touch the navigation arrow ▷.
⇒ The **Inputs** submenu is called up.

► Use the navigation arrow ▾ to select the zone whose interface is assigned (for example, zone 2).

► Use the navigation arrow ▷ to select the corresponding input.

⇒ You have activated the interface.

Optional: Select the contact of the fireplace switch

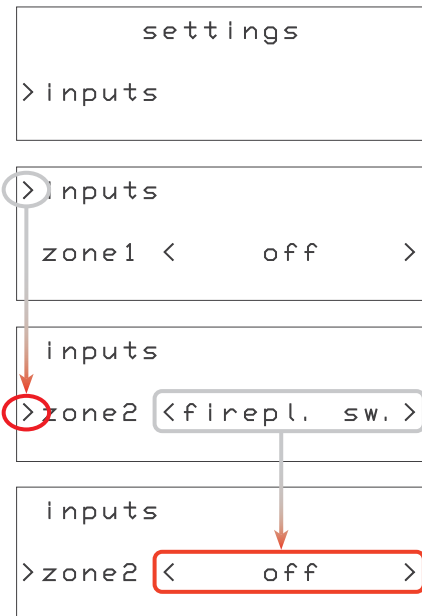


Requirements:

- You are in the Inputs submenu.
 - The external interface is assigned to a pressure sensor.
- ▶ Touch the navigation arrow ▾ until the menu item **Fireplace switch:** is displayed. (following last zone)
- ▶ Use the navigation arrow ▷ to select the function of the contact:
Normally open contact: N.O. (Normally Open)
Normally closed contact: N.C. (Normally Closed)

⇒ You have assigned the function to the switch contact.

Deactivating the interface



Requirements:

- You are in the settings main menu.
 - The external interface is activated.
- ▶ Touch the navigation arrow ▾ until the menu item **inputs** is displayed.
- ▶ Touch the navigation arrow ▷.
⇒ The **inputs** submenu is called up.
- ▶ Use the navigation arrow ▾ to select the zone whose interface is to be deactivated (for example, zone 2).
- ▶ Use the navigation arrow ▷ to select the **off** input.
⇒ You have deactivated the interface.

4.8 Define limit value for humidity and temperature sensor

The limit value determines the relative room humidity, above which the MZ-Home controller switches all fans connected to the respective Clust-Air module to the dehumidification function. It is set to 80 % at the factory. The limit value can be set individually for each zone.



The dehumidification function cannot be selected manually, it is triggered by sensor technology.

Requirements:

- You are in the settings main menu.

```
settings
>limits
```

- ▶ Touch the navigation arrow ▾ until the menu item **limits** is displayed

```
>limits
  < zone 1 >
  humidity   : 80%
```

- ▶ Touch the navigation arrow ▷.
 - ⇒ The **limits** submenu is called up.

```
limits
> → < zone 2 >
  humidity   : 80%
```

- ▶ Touch the navigation arrow ▾ to go to the zone selection.
- ▶ Use the navigation arrow ◀ / ▶ to select the zone whose limit value is to be set.
 - ⇒ The displayed zone is active.

```
limits
  < zone 2 >
>humidity   : 80%
```

- ▶ Use the navigation arrow ▾ to select the menu item **humidity**.
 - ⇒ The marker arrow > points to the **humidity** menu item.
- ▶ Touch the navigation arrow ▷.
 - ⇒ The currently set limit value parameter flashes.

```
limits
  < zone 2 >
>humidity   : 70%
```

- ▶ Touch the navigation arrow ▾ / △ to decrease / increase the limit value.
 - ⇒ The limit value is changed.
- ▶ Confirm the selection with the navigation arrow ◀.
 - ⇒ The flashing stops.

⇒ You have set the limit value for the relative room humidity. If the room humidity exceeds this, the dehumidification function is activated.

4.9 Set interval for filter change

The MZ-Home controller automatically reminds you to change the filters of your ventilation device after a predefined interval. The contamination of the filters is not measured automatically. You have to set an interval based on your own observation.

An interval of 14 weeks is set ex works.

Menu item	Description
Interval	<ul style="list-style-type: none"> Indicates the currently set change interval Minimum: 1 week Maximum: 52 weeks
Rest	<ul style="list-style-type: none"> time remaining until next filter change

```

settings
>filter change
  
```

```

>filter change
filter changed?
interval: 14 weeks
residu : 8 weeks
  
```

```

filter change
filter changed?
>interval: 14 weeks
residu : 8 weeks
  
```

```

filter change
filter changed?
>interval: 12 weeks
residu : 8 weeks
  
```

Requirements:

- You are in the settings main menu.

► Touch the navigation arrow ▾ until the menu item **filter change** is displayed.

► Touch the navigation arrow ▷.
⇒ The **filter change** submenu is called up.

► Use the navigation arrow ▾ to select the menu item **interval**.

► Touch the navigation arrow ▷ to confirm the selection.
⇒ The **interval** indicator flashes.

► Touch the navigation arrow ▾ / △, to decrease / increase the number of weeks between filter changes.

⇒ The **interval** indicator is set to the change interval.

⇒ You have set the filter change interval.

4.10 Confirm filter change



If the filter needs to be changed, the filter change display opens instead of the start screen. After you have changed the filter, you must confirm the change on the controller.

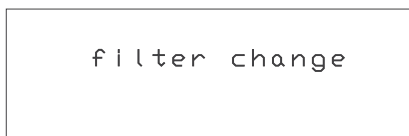


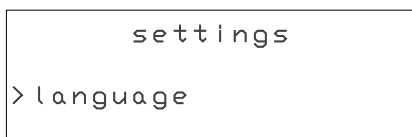
Figure 9: Request filter change

Requirements:

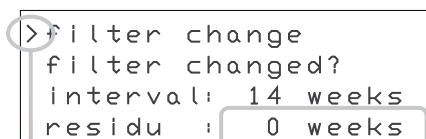
- The filter change indicator appears on the start screen.



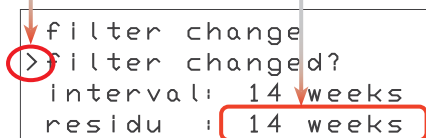
- ▶ Touch any navigation arrow for at least 5 seconds.
⇒ The start screen is displayed.



- ▶ Touch the navigation arrow ▷ three times.
⇒ The **settings** main menu is called up.



- ▶ Touch the navigation arrow ▽ until the menu item **filter change** is displayed.
- ▶ Touch the navigation arrow ▷.
⇒ The **filter change** submenu is called up.



- ▶ Use the navigation arrow ▽ to select the menu item **filter changed?**
- ▶ Touch the navigation arrow ▷ to confirm the selection.
⇒ The **residual** display is reset to the change interval.

⇒ You have confirmed the filter change.




To change the change interval after confirming, you can select the **interval** menu item directly and change the interval.

Then switch again to the item **filter changed?** and confirm the new interval with the navigation arrow ▷.

4.11 Define output levels

In the **output levels** submenu, you can redefine the preset fan speed (📖 2.2: Function – standard settings) for each output level.

Three output levels can be set for each of the operating modes heat recovery and ventilation. When the dehumidification function is triggered, a output level can be defined.

 The percentage allocation of the output levels depends on the ventilation concept that was created for you. The setting is possible between 25 % and 100 % in 5 % steps.

Change output levels for heat recovery and ventilation

Requirements:

- You are in the settings main menu.

```
settings
>output levels
```

- ▶ Touch the navigation arrow ▾ until the **output levels** menu item is displayed.

- ▶ Touch the navigation arrow ▷.
 - ⇒ The **output level** submenu is called up.

```
>output levels
- = 25 %
- = 35 %
- = 60 %
```

Ventilation level 1: 
 Ventilation level 2: 
 Ventilation level 3: 
 Pause / Off:  no bar

```
output levels
- = 25 %
- = 35 %
- = 60 %
```

- ▶ Use the navigation arrow ▾ / △ to select the output level you want to set. (for example level 2).
 - ⇒ The marker arrow > points to the level.

- ▶ Touch the navigation arrow ▷.
 - ⇒ The currently set fan speed flashes.

```
output levels
- = 25 %
- = 50 %
- = 60 %
```

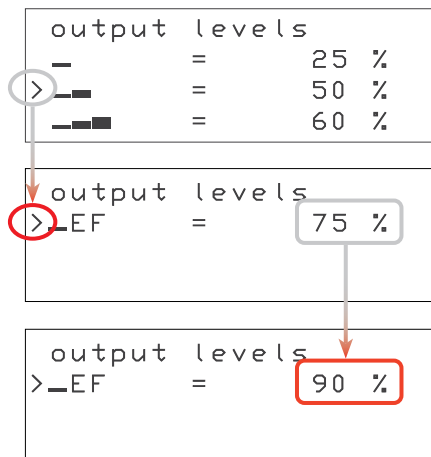
- ▶ Touch the navigation arrow △ / ▾ to increase / decrease the fan speed in 5 % steps.

- ▶ Touch the navigation arrow ◀ to confirm the selection.
 - ⇒ The flashing stops.

⇒ You have set the output levels for heat recovery and ventilation.

Change output level for automatic humidity monitoring

In this menu item you can define the output level for automatic humidity monitoring.



Requirements:

- You are in the **output level** submenu.

- ▶ Touch the navigation arrow ∇ until a new screen opens on the display unit.

⇒ The marker arrow $>$ points to the output level **_EF**.

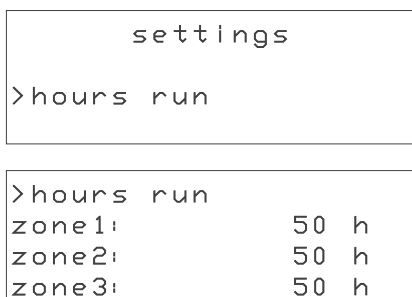
- ▶ Touch the navigation arrow \triangleright .
⇒ The currently set output value flashes.

- ▶ Touch the navigation arrow \triangle / ∇ to increase / decrease the output value in 5 % increments.

- ▶ Touch the navigation arrow \triangleleft to confirm the selection.
⇒ The flashing stops.

⇒ You have set the output level when activated by the automatic humidity monitoring (dehumidification function).

4.12 Call up operating hours



Requirements:

- You are in the settings main menu.

- ▶ Touch the navigation arrow ∇ until the menu item **hours run** is displayed.

- ▶ Touch the navigation arrow \triangleright .
⇒ The **hours run** submenu is called up.

- ▶ Use the navigation arrow ∇ to select the zone whose operating hours you want to view.

⇒ You can view the operating hours of the zone.

4.13 Making settings for the display unit

Feature	Description
Brightness	<ul style="list-style-type: none"> Brightness of the backlight during input Minimum: 25 % Maximum: 99 %
Interval	<ul style="list-style-type: none"> Interval of the backlight after the last input After the set duration has elapsed, the screen switches off Minimum: 10 seconds Maximum: 300 seconds

Call up the display submenu

```

settings
> display

```

```

display
> brightness : 60 %
interval : 20 sec

```

Requirements:

- You are in the settings main menu.

▶ Touch the navigation arrow ▾ until the menu item **display** appears.

▶ Touch the navigation arrow ▷.

⇒ The **display** submenu is called up.

⇒ The current display settings are visible.

Setting the brightness of the backlight

```

display
> brightness : 60 %
interval : 20 sec

```

```

display
> brightness : 80 %
interval : 20 sec

```

Requirements:

- You are in the **display** submenu.

▶ Use the navigation arrow ▾ to select the **Brightness** menu item.

⇒ The marker arrow > points to the **Brightness** menu item.

▶ Touch the navigation arrow ▷.

⇒ The current brightness value flashes.

▶ Touch the navigation arrow ▾ or △ to increase or decrease the brightness.

▶ Touch the navigation arrow ◀ to confirm the selection.

⇒ The flashing stops.

⇒ You have set the brightness of the display unit.

Adjusting the duration of the backlight



Requirements:

- You are in the **display** submenu.
 - ▶ Use the navigation arrow ∇ to select the menu item **interval**.
 - ⇒ The marker arrow $>$ points to the **interval** menu item.
 - ▶ Touch the navigation arrow \triangleright .
 - ⇒ The **interval** indicator flashes.
 - ▶ Touch the navigation arrow ∇ / \triangle to shorten / lengthen the display duration.
 - ▶ Touch the navigation arrow \triangleleft to confirm the selection.
 - ⇒ The flashing stops.
- ⇒ You have adjusted the duration of the backlight.

4.14 Setting the date and time



The MZ-Home controller does not automatically recognise the change from summer to winter time and vice versa. **date and time changes of any kind must be set manually.**

Call up the date and time submenu

```


settings
>date & time
  
```

```

>date & time
date    01.01.2018
time    06:08
day     Wed
  
```

Requirements:

- You are in the settings main menu.
 - ▶ Touch the navigation arrow ∇ until the **date & time** menu item is displayed.
 - ▶ Touch the navigation arrow \triangleright .
- ⇒ The **date & time** submenu is called up.

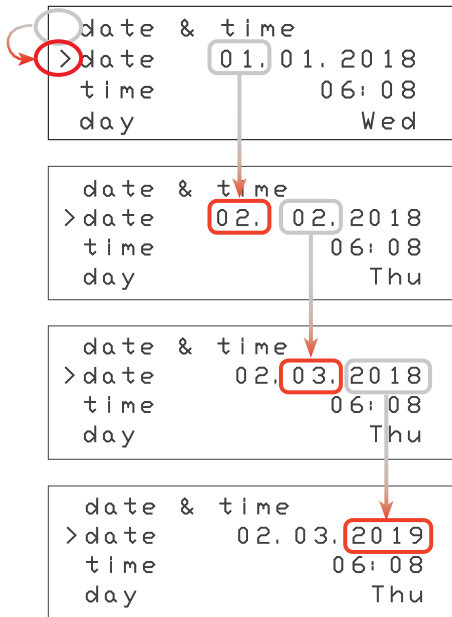
-  Use the navigation arrows ∇ / Δ to navigate between the date, time and day of the week. No value should flash for this purpose. Using the navigation arrows \triangleleft / \triangleright you can switch within a line, e.g. day, month and year. The currently selected value flashes.

The MZ-Home controller interprets the change to another value as confirmation, and the last set value is saved.

Programming procedure:

- Step 1: Set current date
 Step 2: Set time
 Step 3: Set weekday

Step 1: Set date

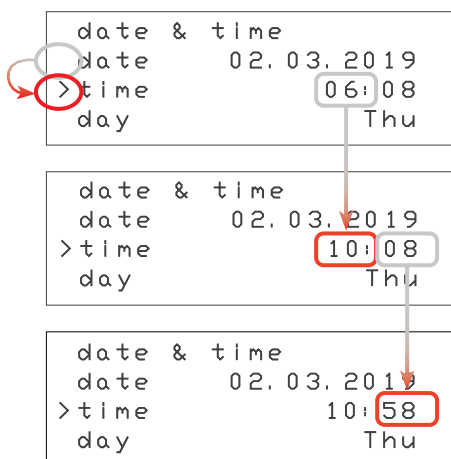


Requirements:

- You are in the **date & time** submenu.
- Use the navigation arrow ∇ to select the menu item **date**.
 ⇒ The marker arrow \triangleright points to the **date** menu item.
 - Touch the navigation arrow \triangleright .
 ⇒ The **day** indicator flashes.
 - Use the navigation arrow ∇ / Δ to set the current day.
 ⇒ The day is set.
 - Touch the navigation arrow \triangleright .
 ⇒ The **month** indicator flashes.
 - Use the navigation arrow ∇ / Δ to set the current month.
 ⇒ The month is set.
 - Touch the navigation arrow \triangleright .
 ⇒ The **year** indicator flashes.
 - Use the navigation arrow ∇ / Δ to set the current year.
 ⇒ The year is set.
 - Touch the navigation arrow \triangleleft three times.
 ⇒ The flashing stops.
 ⇒ You are back in the **date & time** submenu.

⇒ You have set the current date.

Step 2: Set up time

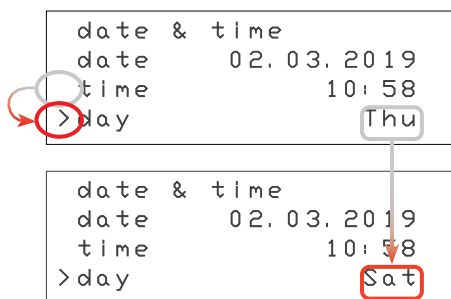


Requirements:

- You are in the **date & time** submenu.
- Use the navigation arrow ∇ to select the menu item **time**.
⇒ The marker arrow > points to the **time** menu item.
- Touch the navigation arrow \triangleright .
⇒ The **hours** indicator flashes.
- Use the navigation arrow ∇ / \triangle to set the current hour.
⇒ The hour is set.
- Touch the navigation arrow \triangleright .
⇒ The **minutes** indicator flashes.
- Use the navigation arrow ∇ / \triangle to set the minutes.
⇒ The current minute is set.
- Touch the navigation arrow \triangleleft twice.
⇒ The flashing stops.
⇒ You are back in the **date & time** submenu.

⇒ You have set the time.

Step 3: Set up day



Requirements:

- You are in the **date & time** submenu.
- Use the navigation arrow ∇ to select the **day** menu item.
⇒ The marker arrow > points to the menu item **day**.
- Touch the navigation arrow \triangleright .
⇒ The **day** indicator flashes.
- Use the navigation arrow ∇ / \triangle to set the current day of the week.
⇒ The weekday is set.
- Touch the navigation arrow \triangleleft once.
⇒ You are back in the **date & time** submenu.
⇒ The flashing stops.

⇒ You have set the current day of the week.

4.15 Call up information

In the Information submenu you will find information on the hardware and software, as well as the serial number of your MZ-Home controller.

```
settings
>information
```

```
Information
MZ-Home
HW: 1.00      SW: 1.07
SN:          1707181234
```

Requirements:

- You are in the settings main menu.

▶ Touch the navigation arrow ▾ until the menu item **information** is displayed.

▶ Touch the navigation arrow ▷.
⇒ The **information** submenu is called up.

⇒ You can view the hardware version (HW).

⇒ You can view the software version (SW).

⇒ You can view the serial number (SN).

4.16 Reset to factory settings

```
settings
>standard settings
```

```
standard settings
RESET >>>
back <<<
```

Requirements:

- You are in the settings main menu.

▶ Touch the navigation arrow ▾ until the menu item **standard settings** is displayed.

▶ Touch the navigation arrow ▷.
⇒ The **standard settings** submenu is called up.

▶ Touch the navigation arrow ◀ to exit the factory settings submenu (no reset!).

⇒ The settings main menu is displayed.

```
settings
>standard settings
```

▶ Touch the navigation arrow ▷ to reset the MZ-Home controller to the factory settings.
⇒ The MZ-Home performs a function test.

⇒ The start screen is then displayed.

```
inVENTer
MZ-Home
01.01.2018  14:05
```

4.17 Activate/deactivate humidity and temperature sensor

If no humidity and temperature sensor is connected to the Clust-Air module, the message **no sensor** flashes permanently on the start screen. This message can be switched off in the **sensor activation** menu. All sensors are activated at the factory.



Note that only the humidity and temperature sensor of the Clust-Air module can be activated or deactivated in this menu. Other, external, sensors must be activated or deactivated in the Inputs submenu (📖 4.7).

```
settings
>sensor activation
```

```
>sensor activation
zone1      <off>
```

```
sensor activation
>zone2      <on>
```

```
sensor activation
>zone2      <off>
```

Requirements:

- You are in the settings main menu.
 - ▶ Touch the navigation arrow ▾ until the **sensor activation** menu item is displayed.
 - ▶ Touch the navigation arrow ▷.
 - ⇒ The **sensor activation** submenu is called up.
 - ▶ Use the navigation arrow ▾ to select the zone whose sensor is active (On). (for example zone 2).
 - ⇒ The marker arrow points to the zone.
 - ▶ Touch the navigation arrow ◀/▷, to deactivate the sensor (Off).
 - ▶ Touch the navigation arrow ▲ to confirm the selection and move to the next zone.
- ⇒ You have activated/deactivated the humidity and temperature sensor.



To reactivate a deactivated humidity and temperature sensor, switch the sensor of the corresponding zone back to the **On** option.

5 Cleaning and care



CAUTION

Cleaning by children and persons with limited abilities.

Injury to persons and/or incorrect functioning of the ventilation system!

- No cleaning or maintenance activities may be performed on the ventilation system by children and/or persons who are not fully capable of safely doing so due to their physical, sensory or mental capabilities, inexperience or lack of knowledge.

Disconnect the power supply for any cleaning or care work.

The MZ-Home controller is virtually maintenance-free. Any necessary cleaning or care work can be carried out by the user after brief instructions.

Cleaning agents



NOTICE: The MZ-Home controller has a scratch-sensitive acrylic glass surface and plastic surfaces. To prevent damage to the surface, do not use sand, soda, acid or chlorine-based cleaning agents.

A commercially available detergent in warm water can be used for cleaning.

The following tools may be used for cleaning:

- lint-free, soft cloth
- soft brush

Cleaning recommendations

The tasks and intervals listed here are recommended by inVENTer GmbH to maintain the functionality and performance of your MZ-Home controller.

Depending on requirements, your personal cleaning schedule may deviate from these recommendations.

Interval	Module	Cleaning measure
Monthly	Operating unit	Clean the cover and side surfaces with a damp cloth.
Monthly	Humidity and temperature sensor	Brush the ventilation slots free. Clean the surface with a damp cloth.


6 Accessories and spare parts


Contact your local distributor to order accessories for your ventilation system.

Component	Item number
Operating unit	
MZ-Home operating unit, white	2006-0103
Clust-Air module®	
Clust-Air module CAM17	1003-0119
MZ-Home control module	3002-0258
Humidity/temperature sensor FTS15-MZ	3002-0264
Sensor technology (optional)	
CO ₂ sensor CS1	1004-0145
Switching power supply units	
Switching power supply unit NT15-MZ (for DIN rail installation)	3002-0260

7 Troubleshooting and disposal

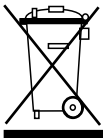
Troubleshooting

Fault	Possible cause	Remedy
Screen lights up without display	Controller crashed.	Touch the navigation arrows ◀ and ▶ simultaneously for less than 5 seconds until the start screen appears.
		Briefly disconnect the controller from the power supply.
Navigation arrow cannot be operated.	Capacitive button on the control panel defective.	Carry out a function test: Touch navigation arrows ◀ and ▶ or △ and ▽ simultaneously for longer than 5 seconds. See also:  MZ-Home assembly instructions, commissioning: www.inventer.de/downloads . - Button does not work (button test): the operating unit must be replaced. - Not all modules recognised (devices: for each connected module a 1 is displayed).
Ventilation zones are no longer addressed.	Clust-Air module faulty. Cable damaged. Operating unit defective.	
settings, e.g. of the 7-day timer, are no longer saved.	Clust-Air module faulty.	
"no sensor" indicator flashes permanently on the start screen.	No humidity and temperature sensor connected to Clust-Air module.	Deactivate the sensor of the affected Clust-Air module.
Faulty measuring results of the humidity sensor	Insufficient flow through the sensor	Check that the ventilation slots and the sensor are facing the same side.

If you cannot eliminate the fault, please contact your factory representative or our technical customer service. Information on how to do this can be found in  9: Service.

Dismantling and disposal

Dismantle the MZ-Home controller before disposal.



Dispose of the product in compliance with the applicable national regulations. The products described in these installation and operating instructions are largely recyclable due to their low-pollutant processing. Contact an electronic appliance disposal company to arrange environmentally friendly recycling and disposal of unwanted equipment.



For dismantling steps and disposal recommendations, please refer to the separately available dismantling instructions at www.inventer.eu/downloads.

8 Guarantee and warranty

Guarantee

The guarantee refers to the defect-free condition of the product at the time of purchase and covers all defects that were present at the time of purchase. Failure to observe the intended use will invalidate all guarantee claims.

Outside Germany, the national guarantee provisions of the country in which the system is sold apply. Please contact the distributor for your country.

Manufacturer warranty

inVENTer GmbH provides a five-year warranty for electronic components. This covers premature product wear.

Further information about the warranty is available at www.inventer.eu/guarantee

9 Service

Complaints

Check the delivery for completeness and transport damage upon receipt using the delivery note. Report missing items immediately, and at the latest within 14 days to your supplier, distributor or factory representative.

Guarantee and warranty claims

In the case of a guarantee or warranty claim, contact your local distributor or factory representative.

In all cases, please return the complete unit to the manufacturer.

The warranty is an additional offering by the manufacturer and in no way affects the applicable law.

Accessories and spare parts

To order parts for your controller, contact your nearest factory representative or our service staff.

Technical customer service

For technical support contact our service staff:



+49 (0) 36427 211-0



+49 (0) 36427 211-113



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