

Cleva Remote Control Manual



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1. Introduction

The purpose of this document is to quickly and simply demonstrate the operation and use of the remote control for the CLEVA units from Systemair.



Warning

The installation, assembly, and maintenance operations must be carried out by qualified, authorized personnel who are trained in accordance with the specific regulations of each city or country.



Warning

- The remote control is considered an electronic device that must be disposed of in accordance with the European Directive and cannot be discarded as household waste.
- Use only designated channels for disposing of this type of device.
- Comply with all applicable local laws and regulations

2. Features

- 4-line backlit display with 20 characters per line.
- Keyboard for setting temperature setpoints, ventilation airflow rates, temperature control adjustments, timer programming, notifications/alarms, and clock configuration, depending on the controller application and access code.
- The backlighting of the display is normally dimmed; it is activated when a button is pressed and dims again after a period of inactivity.
- Navigation between different screens and menus using 7 buttons (see figure 5).
- Connection via a 4-wire cable to the remote control and a 4P4C connector to the controller (figure 4).
- Maximum length of the communication/power cable between the unit and the remote control < 100 m².

Technical data

| | |
|-----------------------|--|
| Power supply | Internal via communication cable with the controller |
| Connection cable: | Included as standard |
| Length | Supplied with 10 m of cable. Maximum length < 100 m |
| Connection | Quick connector 4P4C to controller and 4 cables to remote control (figure 4) |
| Type | 26AWG |
| Display | Backlit, blue light, LCD, 4 lines with 20 characters |
| Character height | 4.75 mm |
| Operating temperature | 5...40°C |
| Storage temperature | -40...+50°C |
| Ambient humidity | 5...95 % RH |
| Protection class | IP30 |
| Color | White RAL 9003 |

Table 1. Technical data of the remote control.

3. Mechanical design

3.1 Dimensions

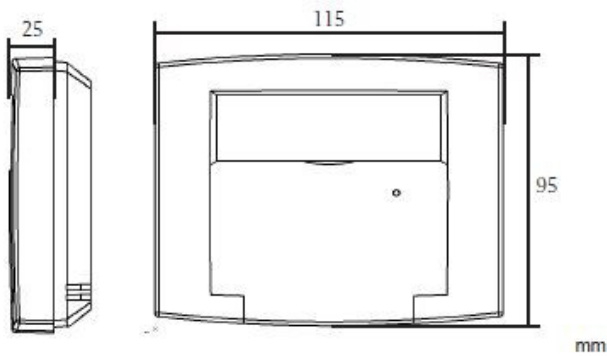


Figure 1. Display dimensions.

3.2 Assembly and installation

The remote control can be mounted on a wall or on a junction box with a 60 mm center-to-center distance.

It can also be mounted directly on the unit or on a metal surface, as two magnetic strips are supplied with the remote control. These strips must be properly attached to the back of the remote control to ensure a stable fixation.

When using this type of mounting, the electrical connection cable should exit through the bottom of the connection compartment, ensuring a correct flat installation (see figure 2).

Additionally, it is recommended to secure the cable with a tie, as shown in figure 3, to prevent accidental disconnections due to cable traction.



Figure 2. Bottom exit of the electrical connection cable.



Figure 3. Cable with tie (1) to prevent accidental disconnections.

4. Electrical connection

For the electrical wiring of the remote control, it is essential to have the electrical diagram of the unit, as well as the wiring diagram included with the remote control (label attached to the back).

The connection must be made using the supplied cable (10 meters) or an equivalent cable of type 26 AWG, with a maximum length of 100 meters.

Although using a shielded cable is not mandatory, it is recommended to maintain an adequate separation between the machine's power cable and the connection cable between the remote control and the machine to avoid interference and electromagnetic compatibility (EMC) issues.

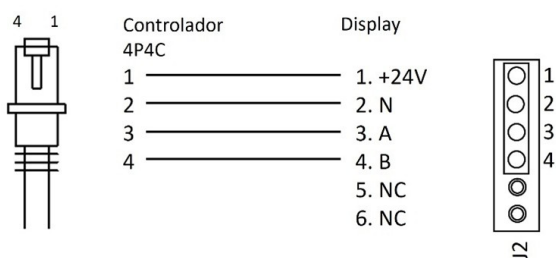


Figure 4. Cable connections (controller - Display).

5. Main functions

The home screen displays basic information about the unit, including the unit name, date and time, unit status, temperature setpoint, and current temperature. This screen corresponds to the basic level of the menu tree, and its appearance may vary depending on the configuration.

If the user has operator access, they will be able to view additional information and modify operating parameters, such as reference values and configurable functions.

To access the next level of the menu:

Use the UP and DOWN buttons to position the cursor next to the desired menu.

Press the RIGHT button to enter the selected menu.

If the user has the necessary privileges to log in, the screen will display the chosen menu.

At each menu level, there may be multiple options, which can be navigated using the UP and DOWN buttons.

Some menus contain submenus, indicated by an arrow symbol on the right edge of the screen. To access a submenu, press the RIGHT button again. To return to the previous menu level, press the LEFT button.

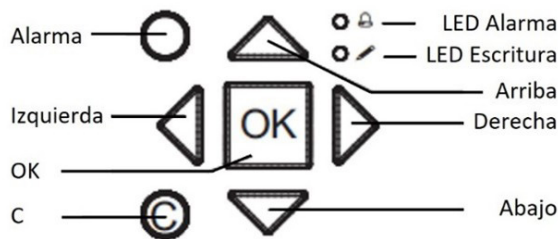


Figure 5. Remote control button panel.

5.1 LED indicators on the display

The following table shows the different indicative functions of the 2 LEDs on the remote control.

| Symbol | Color | Function |
|--------|-----------------|---|
| | Flashing red | There is one or more unacknowledged alarms. |
| | Solid red | There is one or more acknowledged alarms pending confirmation. |
| | Flashing yellow | Screen where it is possible to switch to edit mode. A fast blink (2 times/second) indicates that the parameter can be modified using the current access level. A slower blink (1 time/second) indicates that a higher access level is required to change the parameter. |
| | Solid yellow | The change can be made. |

Table 2. LED indicators on the display.

5.2 LED indicators on the controller

The following table shows the different indicative functions of the 4 LEDs on the controller.

| Designation | Color | Description |
|---------------------|--------------|--|
| P1 RxTx | Yellow/Green | Port 1. Receiving and transmitting information. |
| P2 RxTx | Yellow/Green | Port 2. Receiving and transmitting information. |
| TCP/IP | Yellow/Green | Green: Connection established to a network. Green flashing: Information traffic. Yellow flashing: Indication of connection between controller and BMS. Once connected, it stays green. |
| P/B (Power/Battery) | Green/Red | Green: Correct power supply. Red: Battery error. Replace the internal battery. |

Table 3. LED indicators on the controller.

5.1 5.3 Summary of the functions of the remote control buttons

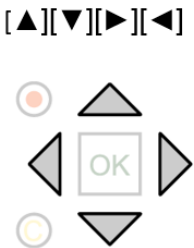

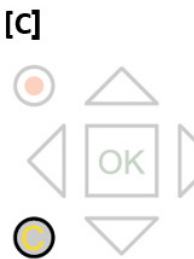

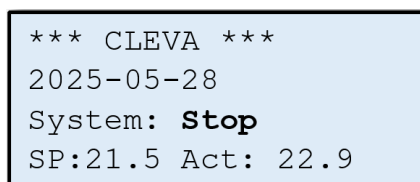
| Designation | Functions | Function in Alarm Mode |
|---|--|---|
|  | <p>Navigation Buttons</p> <ul style="list-style-type: none"> ▲ Navigate up ▼ Navigate down ► Navigate right ◀ Navigate left <p>In edit mode:</p> <ul style="list-style-type: none"> ◀ Move the cursor to the left ► Move the cursor to the right ▲ Increase the value by 1 ▼ Decrease the value by 1 ▲ and ▼ Scroll between texts when there are multiple options | <ul style="list-style-type: none"> ▲ Navigate up in the alarm list. ▼ Navigate down in the alarm list. ◀ Exit the alarm display mode |
|  | <ul style="list-style-type: none"> • Enter edit mode • Confirm a new value in edit mode. An entry must be confirmed using this button in order to change the value on the controller. • Once a value has been confirmed, the cursor will move to the next editable value in the current box. | <p>A menu is displayed showing all available actions for the current alarm.</p> |
|  | <ul style="list-style-type: none"> • Enter edit mode and delete the value displayed on the screen. • Delete the character at the cursor position. • When the current value is completely empty, edit mode will be cancelled and the cursor will move to the next value, which will also be cleared in the window. • Undo (delete) the entry. | <p>Closes the menu containing the available actions for the alarm without changing the status of the alarm point.</p> |
|  | <p>Enter alarm display mode.</p> | <p>Scroll through the alarms in alarm display mode.</p> |

Table 4. Remote control button functions.

6. Menu navigation

6.1 Step-by-step navigation

When the remote control/display is switched on, the home page shows product-related information, including the model, software version, and serial number.



Where SP is the defined setpoint and Act is the current measured value.

Menu navigation at this level is performed using the [▼] and [▲] buttons. The available items may vary depending on the user's access level. All available menu entries are listed below:

- [▼] Ventilation
- [▼] Weekly timer and clock
- [▼] Alarm events
- [▼] Inputs and outputs
- [▼] Settings
- [▼] Access rights

To open a menu, press the [▶] button when the on-screen cursor is positioned over the desired menu item. At each level, you can navigate between several submenus using the [▲] and [▼] buttons. The presence of additional submenus linked to an item is indicated by an arrow symbol on the right edge of the screen.

To enter a submenu, press the [▶] button again.

To return to the previous menu level, press the [◀] button.

6.2 Changing values

When the cursor is in a position that allows one or more values to be modified, and the access level is sufficient, you can edit the current value or enter a new one. After modifying the value, you must confirm the entry by pressing the [OK] button, or cancel the change by briefly holding the [C] / [▼▶] buttons until the original value reappears on the screen and edit mode is exited.

These actions are described in more detail in the following sections.

6.2.1 Editing an existing value

1. Press the [OK] button to enter edit mode. A blinking cursor will appear. If there are multiple editable values in the same menu, press the [OK] button until the desired value starts blinking.
2. Move the cursor left or right using the [▶] and [◀] navigation buttons.
3. The value under the cursor can be modified in the following ways:
 - Delete the current digit or character using the [C] / [▼▶] buttons.
 - Use the [⏪] and [⏩] buttons to increase or decrease the value under the cursor. This method also allows editing editable texts.
 - If the character under the cursor is a decimal point, it cannot be modified with the [▲] and [▼] buttons. However, the decimal point can be deleted using the [C] / [▼▶] buttons.
 - If the cursor is located to the right of the value, i.e., on a blank space, a decimal point can be added with the [▼] button, or the digit zero with the [▲] button.
 - To enter a negative number, move the cursor to the far left position and press the [▼] button to insert the minus sign. Then, edit the following digits to obtain the required value.
 - Use the [▲] and [▼] buttons to scroll through texts when there is a list of text options instead of numerical values.

6.2.2 Entering a new value

- Press the [C] / [▼▶] buttons to enter edit mode. The value on the screen will be deleted, and a completely new value will need to be entered.
- To enter a negative number, move the cursor to the far left position and press the [▼] button to insert the minus sign. Then, edit the following digits to obtain the required value.
- Press [▲] to start entering with the digit 0, and then navigate to the desired digit or character using the [▲] and [▼] buttons.
- Press [▼] to insert a decimal point. When the cursor is on a decimal point, navigation with the [▲] and [▼] buttons is not possible.

6.2.3 Confirming a change

Press the [OK] button to confirm the change once the required value has been entered. The value displayed on the screen will be updated on the controller.

After confirming the value, the cursor will move to the next editable value within the current menu.

NOTE: Until a change is confirmed with the [OK] button, no modification will be applied to the controller.

6.2.4 Undoing a change

NOTE: Until a value is confirmed with the [OK] button, it is possible to undo a change by briefly pressing the [C] / [▼▶] buttons until the original value reappears on the screen and edit mode is exited.

6.3 Log in and log out

The controller has four different access levels. The selection of the access level determines which menus are displayed and which parameters can be modified within the visible menus.

- Guest Level: No login required and only allows changes in the defined operating mode, in addition to offering read-only access to a limited number of menus.
- Operator Level: Provides the same access as the Guest level, but also allows modification of setpoints.
- Service Level: Includes all permissions of the Operator level, and also allows modification of controller settings and access to manual mode.
- Administrator Level: Provides full read and write access to all settings and parameters in all menus. See Table 5 for the corresponding password.

6.3 Log in

1. Go to Access Rights in the main menu by pressing the [▼] button, then press the [▶] button.

```
*** CLEVA ***
2025-05-28
System: Stop
SP:21.5 Act: 22.9 ↓
```

```
Time settings
Alarm events
Inputs/Outputs
-Access Rights →
```

2. Select Log in and press [▶].

```
→Log on →
Log off
Change password
```

3. Press the [OK] button to display a cursor indicator at the first digit position.

```
Log on
Enter password: 5***
Actual level:
None
```

4. Enter the password (4-digit code) by pressing the [▲] button until the correct digit is shown. Press [▶] to move to the next position. Repeat the procedure until all four digits are entered and press [OK] to confirm.

6.4 Log out

1. Go to Access Rights in the main menu and press the [▶] button. Select Log in and press [▶].

```
Log on
→Log off →
Change password
```

2. Select Log out and press the [▶] button again.

```
Log off?
Si
Actual level:
Admin
```

6.4 Change password

Go to Access Rights in the main menu and press the **[▶]** button, then select Change password and press **[▶]**.

```
Log on
Log off
→Change password →
```

Press the **[OK]** button and use the **[▲]** and **[▼]** buttons to select the access level, pressing **[OK]** to confirm.

Enter the new password (4-digit code) by pressing the **[▲]** button until the correct digit is displayed. Press **[▶]** to move to the next position. Repeat the procedure until all four digits are entered and press **[OK]** to confirm.

```
Change password for
Level: Operator →
New password: ****
```

The following passwords are the default ones for the different access levels:

| Access Level | Password |
|---------------|----------|
| Administrator | **** |
| Service | **** |
| Operator | 3333 |
| Guest | 5555 |

Tabla 5. Passwords en función de los diferentes niveles de acceso.

It is only possible to change the password for access levels equal to or lower than the currently active level. For example, if logged in as Administrator, all passwords can be changed; however, if logged in as Operator, only the passwords for Operator and Guest can be modified. Changing the Guest level password is not necessary, as access to this level is granted automatically to all users.

NOTE: Do not set the same password for two different access levels, as this would prevent access to the higher level of the two. This recommendation is especially important for the Administrator level.

6.3.4 Automatic disconnection

When logged in as Operator, Service, or Administrator, the user will be automatically logged out to the Guest level after a configurable period of inactivity (the default is 60 seconds).

6.4 Menu structure and features

En el menú de inicio, es posible acceder a los siguientes submenús según el nivel de acceso otorgado. Utilizar los **[▶]** en el home menu, it is possible to access the following submenus depending on the granted access level. Use the **[▲]** and **[▼]** buttons to scroll through the menu, and the **[▶]** button to enter the corresponding submenus.

```
→Ventilation
Time settings
Alarm events
Inputs/Outputs
Configuration
Access Rights
```

6.4.1 Ventilation

The Ventilation menu has up to 6 submenus:

```
→Actual/Setpoint
Temperature control
Fan control PID
Controller
Manual/Auto
Status
```

Actual/Setpoint:

In this submenu, it is possible to view all the current values of the unit's configuration.

As an example, the screens are shown to view the values of the exhaust temperature (setpoint and sensor value):

```
Temperature
→Extract air contr.
Supply air contr.
Supply air fan
Extract air fan
Freeze protection
Exchanger
```

```
Extract air
ACTUAL    18.0°C
Setp.    11.0°C
Act.Setp. 23.0°C ↓
```

Temperature Control:

In this submenu, it is possible to view and adjust all temperature setpoints. An Operator access level or higher is required to modify the setpoints.

Fan Control:

In this submenu, it is possible to view and adjust the fan parameters. This submenu is only visible for Operator access levels and higher, and editable only for Service access levels and higher.

PID Control:

In this submenu, it is possible to view and adjust the parameters of the unit's different PIDs. This submenu is only visible for Operator access levels and higher, and editable only for Service access levels and higher.

Manual/Automatic:

In this submenu, it is possible to configure the ventilation unit in manual mode. This submenu is only visible for Operator access levels and higher, and editable only for Service access levels and higher.

Status:

In this submenu, it is possible to view the unit's status. Each function also has different sub-statuses.

6.4.2 Scheduling and Clock

The clock function is based on the calendar year. This allows setting a weekly schedule with holiday periods for the entire year. The clock automatically switches between daylight saving time and standard time.

It has individual schedules for each day of the week, in addition to a separate configuration for holiday periods. Up to 24 holiday periods can be configured, ranging from one day to 365 days. Holiday schedules take priority over other schedules.

Each day can have up to four individualized operating periods. There are specific daily schedules for low/reduced speed and normal speed for the fans, each with up to four operating periods.

The Scheduling menu contains the following submenus: Weekly Schedule, Holiday Schedule, and Date/Time.

```
Time schedule
Holiday schedule
Time/Date
```

Weekly Schedule (Time Schedule)

In the weekly schedule, up to four periods can be defined for each day of the week. Additionally, there are four periods available for the days configured as holidays in the holiday schedule.

During the defined periods, the unit will operate according to the defined setpoint. Outside of these periods, the system remains off.

Within the weekly schedule, it is possible to select between normal speed (nominal airflow defined for the unit) and reduced speed (by default, nominal airflow/2) for fan operation.

For continuous operation 24 hours a day, a period from 00:00 to 24:00 must be configured.

```
Fan normal speed →
Monday      Per3-4 >
Per1: 00:00 - 00:00
Per2: 00:00 - 00:00
```

```
Fan low speed →
Monday      Per3-4 >
Per1: 22:00 - 24:00
Per2: 00:00 - 00:00
```

```
Fan low speed
Tuesday
Per1: 00:00 - 09:00
Per2: 00:00 - 00:00
```

In case the periods of different speeds overlap, normal speed will take priority over low speed.

Holiday Schedule:

The unit control allows defining specific periods of operation or non-operation of the unit throughout the year. During these defined periods, the weekly schedule settings do not apply. The holiday schedule allows configuring up to 24 periods, which take precedence over the defined weekly schedule.

All holiday periods use a special day plan with a maximum of 4 intervals. A holiday period can last from 1 to 365 consecutive days.

The dates must be entered in MM:DD format. When the current date falls within a holiday period, the control will use the settings corresponding to the special day "Holiday".

| Name | Unit | Min. | Max. | Pre-set | Description |
|-------------------------|-------|-------|-------|---------|-------------|
| Start Holiday Period 1 | MM:DD | 01:01 | 31:12 | 00:00 | Start date |
| End Holiday Period 1 | MM:DD | 01:01 | 31:12 | 00:00 | End date |
| Start Holiday Period 24 | MM:DD | 01:01 | 31:12 | 00:00 | Start date |
| End Holiday Period 24 | MM:DD | 01:01 | 31:12 | 00:00 | End date |

Table 6. Holiday scheduling.

Time/Date

This menu displays the time, date, and day of the week, and allows you to configure the time and date.

The time is displayed in 24-hour format.

The date is displayed in YY:MM:DD format.

6.4.3 Alarm events and alarm management

If an alarm condition occurs, it is recorded in an alarm list. The list shows the type of alarm, the date and time it occurred, and the priority of the alarm (alarm A, B, or C).

Alarm type A is considered severe (it could stop the unit), alarm type B is mild, and alarm type C is informational.

6.4.3.1 Alarm priorities

Alarms are classified into different priority levels: alarm A, alarm B, alarm C, or inactive.

The general alarm output of the unit will be activated whenever any type of alarm (A or B) occurs.

Type C alarms are removed from the alarm list when the cause that triggered them has disappeared, even if the alarm has not been acknowledged.

```
Fan normal speed →
Monday      Per3-4 >
Per1: 00:00 - 00:00
Per2: 00:00 - 00:00
```

```
Fan low speed →
Monday      Per3-4 >
Per1: 22:00 - 24:00
Per2: 00:00 - 00:00
```

6.4.3.2 Alarm Inspection

Press the alarm buttons [ALARM] / [◀▲] to view the alarm.

If there are multiple alarms simultaneously, this will be indicated with up/down arrow symbols on the right edge of the screen. You can navigate between them in two ways:

- Using the navigation buttons [▼] and [▲].
- Pressing the alarm buttons [ALARM] / [◀▲] multiple times.
 - Press [◀] to exit alarm view and return to the previous menu.

6.4.3.3 Acknowledging, Locking, and Unlocking Alarms

1. Press the [OK] button to open a menu with the available alarm actions for the currently displayed alarm.
2. Select the required alarm action using the [▼] and [▲] buttons.
3. Press the [OK] button to execute the action.

On the far left of the lower display line, the status of the alarm is shown. For active and unacknowledged alarms, the space is blank. Alarms that have been reset are indicated with the text "Acknowledged." Active or locked alarms are indicated with the text "Acknowledged" or "Locked."

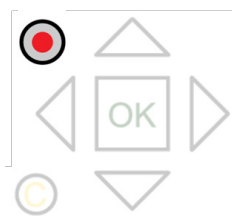
Acknowledged alarms will remain on the alarm list until the alarm input signal is reset.

Locked alarms will remain on the alarm list until the alarm has been reset and the lock is removed. New alarms of the same type will not be activated while the lock remains.

NOTE: Locking alarms can pose a potential risk. For this reason, a higher access level is required to lock alarms.

6.4.3.3.1 Example of alarm acknowledgment. Fire Alarm

1. If an alarm is triggered, the red alarm LED will begin flashing. This LED will remain on until the alarms are reset.



2. Press the red alarm button to view the active alarm. In this case, Fire Alarm.

3. Press the [OK] button to access the alarm acknowledgment and lock option.

4. Press the [◀] and [▶] buttons to select the desired action: Acknowledge or lock the alarm. In this case, select "Acknowledge" to proceed with resetting the alarm.

5. Press the [OK] button to confirm/acknowledge the alarm.

6. If the alarm LED disappears, the alarm has been reset, indicating that the cause that triggered it has been resolved. If the alarm LED stays on solid, it means that the alarm is still active, even though it has been acknowledged.

6.4.4 Inputs/Outputs

In the Inputs/Outputs submenu, it is possible to view and modify certain parameters, as long as the corresponding access permissions are available.

```
→Raw values
  Analog inputs
  Digital inputs
  Analog outputs
  Digital outputs
```

Raw values:

Displays the raw (unprocessed) values of all inputs and outputs of the controller.

Analog/Digital Inputs:

Displays the values of the analog and digital inputs.

Analog/Digital Outputs:

Displays and modifies the values of the analog and digital outputs.

6.4.5 Access Rights

Refer to section 6.3 for more information.

6.4.6 Extra Menus

In addition to the items present in the main menu, there are additional menus that can be accessed by repeatedly pressing the [▶] button from the main screen.

From the main menu, press the [▶] button to access the following menus:

```
*** CLEVA ***
2025-05-28
System: Stop
SP:21.5 Act: 22.9
```

2. Change fan speed operating mode.

Press the [OK] button to display the cursor at the position to be modified. Use the [▲] and [▼] buttons to navigate to the desired option. Press [OK] to confirm the selection.

```
Switch →
Mode: Auto
```

```
Auto
Low speed
Normal speed
off
```

| Selection | Description |
|---------------|--|
| Off | Manual mode off. The system is off. No control function. |
| Auto | Automatic mode. Control function depending on its configuration. |
| Reduced speed | Manual mode. The system is forced to low fan speed. |
| Normal speed | Manual mode. The system is forced to normal fan speed. |

Table 7. Fan speed selection

3. Change Language

Press the [OK] button to display the cursor at the position to be modified. Use the [▲] and [▼] buttons to navigate to the desired option. Press [OK] to confirm the selection.

```
Choose language →
English
```

```
English
Spanish
.....
```

4. IP Communication

This screen displays the IP address assigned to the unit. To modify network communication parameters, Administrator permissions are required.

```
IP
169.254.59.100
```

7. Alarm List

When an alarm condition is detected, it is recorded in the alarm list. The list displays the following information for each alarm: type, activation date and time, and priority (Alarm A, B, or C). Additionally, the external alarm signal of the unit is activated (only with Alarm types A and B), and the red LED on the display, if available.

Alarms are classified according to their priority level as:

- Alarm A
- Alarm B
- Alarm C
- Inactive

If an alarm condition occurs, it is logged in an alarm list. The list shows the alarm type, date and time of the alarm, and the alarm priority (A, B, or C).

Acknowledged alarms will remain visible in the list until the corresponding input signal is reset.

Locked alarms will continue to appear in the list until they are reset and the lock is removed. While the lock is active, no new alarms of the same type will be generated.

NOTES:

1. Alarm locking can pose a potential risk to the safety or operation of the unit. For this reason, at least the Operator access level is required to lock alarms, always considering the associated risks.
2. If the alarm LED disappears, it means the alarm has been reset, and the cause that triggered it has been resolved.
3. If the alarm LED remains lit, it means the alarm is still active, even if it has been acknowledged.

Table 8 describes the different alarms that can be displayed on the system.

| Nr | Alarm | Priority | Delay | Limit | Default action | |
|----|------------------------------|----------|-------|-------|----------------|--|
| 1 | Malfunction supply air fan. | B | 120 s | | | The alarm signals of both fans are connected in series. To identify which fan has triggered the alarm, please refer to the unit's electrical diagram. Supply and/or extract fans without airflow. |
| 6 | Malfunction extract air fan. | B | 120 s | | | The alarm signals of both fans are connected in series. To identify which fan has triggered the alarm, please refer to the unit's electrical diagram. Supply and/or extract fans without airflow. |
| 53 | Supply Air Filter Alarm | B | 180 s | | | The alarm signals of both air filters (supply and extract) are connected in series. To identify which filter has triggered the alarm, please refer to the unit's electrical diagram. |
| 54 | Extract Air Filter Alarm | | | | | The alarm signals of both air filters (supply and extract) are connected in series. To identify which filter has triggered the alarm, please refer to the unit's electrical diagram. |
| 58 | Fire alarm | A | 0 s | | Fast stop | Fire alarm activated. |
| 60 | External stop | C | 0 s | | Normal stop | External stop activated. |
| 62 | Service stop | B | 0 s | | Normal stop | Unit shutdown due to intervention by the Service department. |
| 63 | Electric heater alarm | A | 0 s | | Normal stop | The electric heater alarm signal is activated. |
| 64 | Warning freeze protection | B | 0 s | | | Frost protection function is overriding the control of the heater output. |
| 78 | Internal battery error | A | 0 s | | | Internal battery needs replacing. |
| 79 | Alarm service interval | C | 0 s | | | Time for Service. |

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|-----|---|----|--------|-------|-----------|---|
| 80 | Restart blocked after power on | B | 0 s | | Fast stop | Restart blocked due to earlier power failure. |
| 81 | Deviation alarm supply air temperature | B | 30 min | 10°C | | Supply air temp deviates too much from the setpoint. |
| 82 | Deviation alarm supply air fan | -- | 30 min | 50 Pa | | Supply air pressure deviates too much from the setpoint. |
| 83 | Deviation alarm extract air fan | -- | 30 min | 50 Pa | | Extract air pressure deviates too much from the setpoint. |
| 86 | High supply air temperature | B | 5 s | 40°C | | Supply air temp too high. |
| 87 | Low supply air temperature | B | 5 s | 10°C | | Supply air temp too low. |
| 92 | High extract air temperature | B | 30 min | 40°C | | High extract air temp during extract air control. |
| 93 | Low extract air temperature | B | 30 min | 10°C | | Low extract air temp during extract air control. |
| 94 | High outdoor air temperature | -- | 0 min | 50°C | | Outdoor temperature is too high. |
| 95 | Low outdoor air temperature | -- | 0 min | -15°C | | Outdoor temperature is too low. |
| 96 | Freeze protection alarm | A | 2 s | | Fast stop | Frost protection temperature below the freeze risk setpoint in the hot water coil. |
| 113 | Manual operation air handling unit | C | 0 s | | | The unit is in manual mode. |
| 114 | Manual operation of the setpoint control | C | 0 s | | | The temperature control is in manual mode, directly acting on the heating or cooling stages without automatic regulation. |
| 115 | Manual operation supply air fan | C | 0 s | | | Supply air fan in manual control. |
| 116 | Manual operation extract air fan | C | 0 s | | | Extract air fan in manual control. |
| 117 | Manual operation of the heating stage (sequence A) | C | 0 s | | | The heating stage (sequence A) is in manual mode. |
| 118 | Manual operation of the bypass damper (sequence B) | C | 0 s | | | The bypass damper (sequence B) is in manual mode. |
| 119 | Manual operation of the cooling stage (sequence C) | C | 0 s | | | The cooling stage (sequence C) is in manual mode. |
| 138 | Funcionamiento manual de las salidas digitales o analógicas | C | 0 s | | | Manual operation of the digital or analog outputs. |
| 143 | Manual operation of the preheating coil | C | 0 s | | | The preheating coil is in manual mode. |
| 144 | Sensor error outdoor air temperature | B | 5 s | | | Sensor failure or wiring error. |
| 145 | Sensor error intake air temperature | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 146 | Sensor error supply air temperature | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 148 | Sensor error extract air temperature | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 165 | Supply pressure transducer error (pressure reading) | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 166 | Extract pressure transducer error (pressure reading) | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 167 | Supply pressure transducer error (flow reading) | B | 5 s | | | Failure in the connected sensor or wiring error. |

| | | | | | | |
|-----|---|---|------|--|--|--|
| 168 | Extract pressure transducer error (flow reading) | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 171 | Frost protection sensor error of the plate heat exchanger | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 172 | Frost protection sensor error of the heating coil | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 175 | Extract air CO2 sensor error | B | 5 s | | | Failure in the connected sensor or wiring error. |
| 192 | Communication fault device | C | 0 s | | | Communication error to a device. |
| 194 | Internal error | C | 60 s | | | Internal error. |

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