Manuals+ — User Manuals Simplified.

TECH CONTROLLERS EU-M-12 Wireless Control Panel User Manual

Contents

TECH CONTROLLERS EU-M-12 Wireless Control Panel

SAFETY

Before using the device for the first time the user should read the following regulations carefully. Not obeying the rules included in this manual may lead to personal injuries or controller damage. The user's manual should be stored in a safe place for further reference. In order to avoid accidents and errors, it should be ensured that every person using the device has familiarized themselves with the principle of operation as well as security functions of the controller. If the device is to be put in a different place, make sure that the user's manual is stored with the device so that any potential user has access to essential information about the device. The manufacturer does not accept responsibility for any injuries or damage resulting from negligence; therefore, users are obliged to take the necessary safety measures listed in this manual to protect their lives and property.

WARNING

- High voltage! Make sure the regulator is disconnected from the mains before performing any activities involving the power supply (plugging cables, installing the device etc.)
- The device should be installed by a qualified electrician.
- Before starting the controller, the user should measure earthing resistance of the electric motors as well as the insulation resistance of the cables.
- The regulator should not be operated by children.

WARNING

- The device may be damaged if struck by a lightning. Make sure the plug is disconnected from the power supply during storm.
- Any use other than specified by the manufacturer is forbidden.
- Before and during the heating season, the controller should be checked for condition of its cables. The user should also check if the controller is properly mounted and clean it if dusty or dirty.

Changes in the products described in the manual may have been introduced subsequent to its completion on 31.03.2023. The manufacturer retains the right to introduce changes to the structure or colours. The illustrations

may include additional equipment. Print technology may result in differences in colours shown. Care for the natural environment is our priority. Being aware of the fact that we manufacture electronic devices obligates us to dispose of used elements and electronic equipment in a manner which is safe for nature. As a result, the company has received a registry number assigned by the Main Inspector of Environmental Protection. The symbol of a crossed out rubbish bin on a product means that the product must not be thrown out to ordinary waste bins. By segregating waste intended for recycling, we help protect the natural environment. It is the user's responsibility to transfer waste electrical and electronic equipment to the selected collection point for recycling of waste generated from electronic and electrical equipment.

DESCRIPTION OF THE DEVICE

- The EU-M-12 control panel is designed to operate with the EU-L-12 controller and it is adapted to control the operation of subordinate room controllers, sensors and thermostatic actuators. It has wired RS 485 and wireless communication.
- The panel allows management of the system by controlling and editing the settings of specific devices of the heating system in individual zones: pre-set temperature, floor heating, schedules, etc.

CAUTION

- Only one panel can be installed in the system. This can provide support up to 40 different heating zones.
- Functions and equipment of the controller:
- It provides the ability to control the operation of the EU-L-12 and EU-ML-12 controllers and the thermostatic actuators, room controllers, wired and wireless temperature sensors (dedicated series 12 or universal, e.g. EU-R-8b Plus, EU-C-8r) and displays all information in full colour via a large, glass screen.
- The control panel does not measure temperature! Controllers and sensors registered in the EU-L-12 and ML-12 controller are used for this purpose.

INSTALLING THE CONTROLLER

The EU-M-12 panel is intended to be mounted in an electrical box and should only be installed by a suitably qualified person.
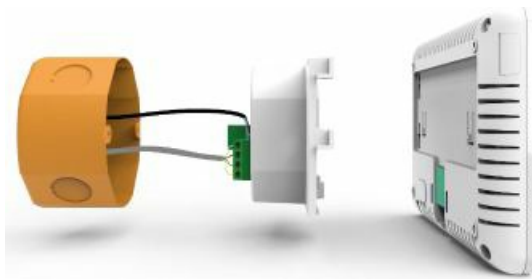**WARNING**
Danger of injury or death due to electric shock on live connections. Before working on the device, disconnect its power supply and secure it against accidental switching on.
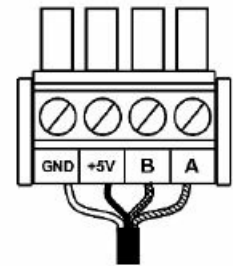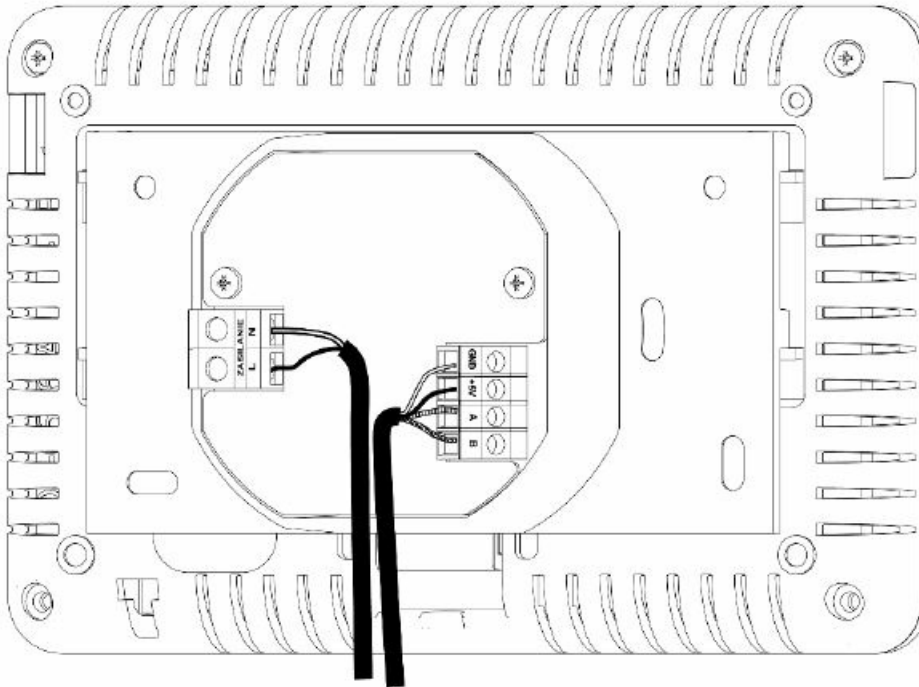**CAUTION**
Incorrect wiring may damage the controller.
The panel should be connected to the first or last controller due to the fact that the panel itself cannot be equipped with a terminating resistor. For details on the termination connection, refer to the EU-L-12 manual.
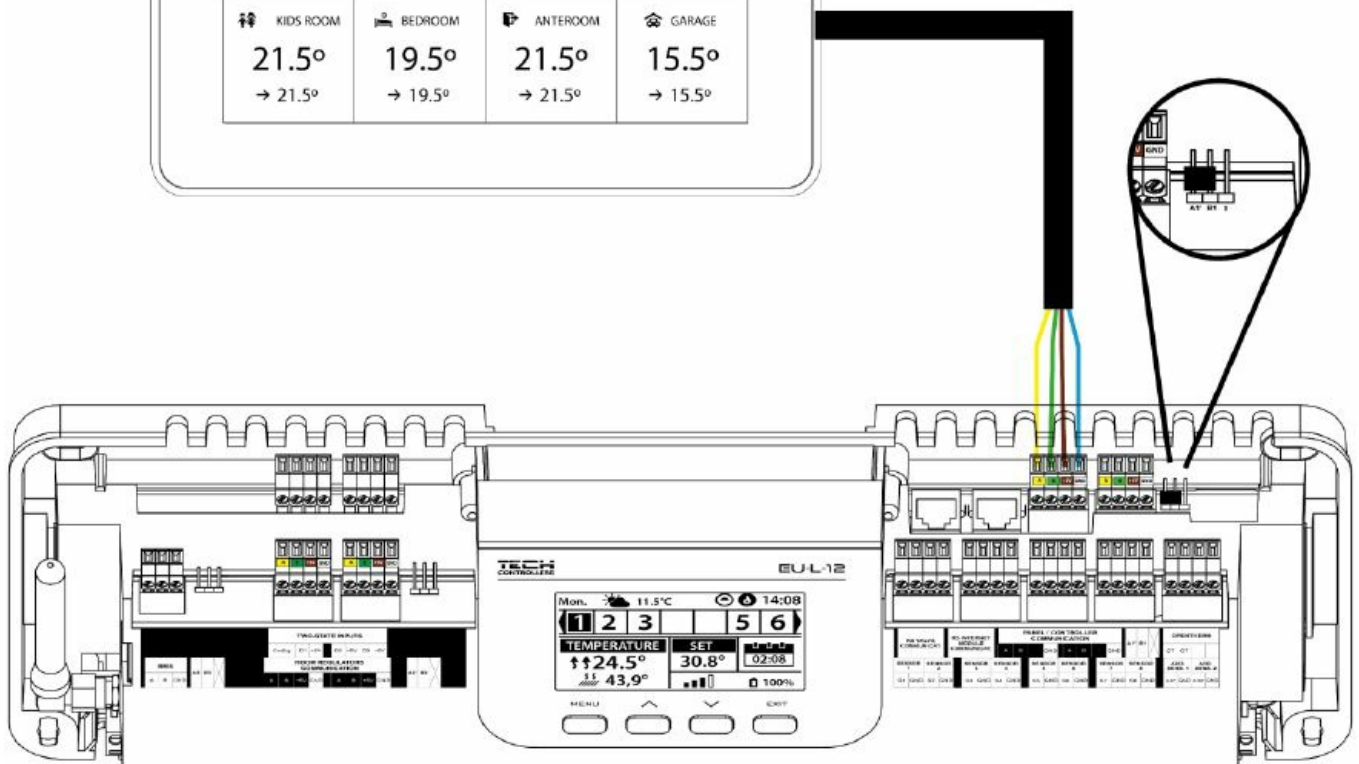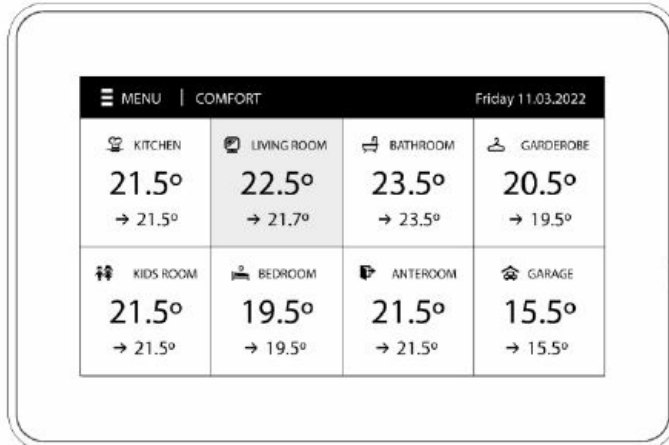
GND +5V B A

230V/50Hz

~

L N

MENU | COMFORT

Friday 11.03.2022

KITCHEN	LIVING ROOM	BATHROOM	GARDEROBE
21.5°	22.5°	23.5°	20.5°
→ 21.5°	→ 21.7°	→ 23.5°	→ 19.5°

KIDS ROOM	BEDROOM	ANTEROOM	GARAGE
21.5°	19.5°	21.5°	15.5°
→ 21.5°	→ 19.5°	→ 21.5°	→ 15.5°

TECH CONTROLLERS

EU-L-12

Mon. 11.5°C 14:08

1 2 3 5 6

TEMPERATURE | SET

24.5° 30.8° 02:08

43,9° 100%

MENU EXIT

FIRST STARTUP

REGISTRATION THE PANEL IN THE CONTROLLER

In order for the panel to operate correctly, it must be connected to the EU-L-12 controller according to the diagrams in the manual and registered in the controller.

1. Connect the panel to the controller and connect both devices to the power supply.

2. In the EU-L-12 controller, select Menu → Fitter's menu → Control Panel → Device Type The panel can be registered as a wired or wireless device, depending on the type of assembly.

3. Click the Register option on the M-12 panel screen.

After successful registration, the data is synchronized and the panel is ready to operate.

CAUTION
Registration will only be successful if the system versions* of the registered devices are compatible with each other.
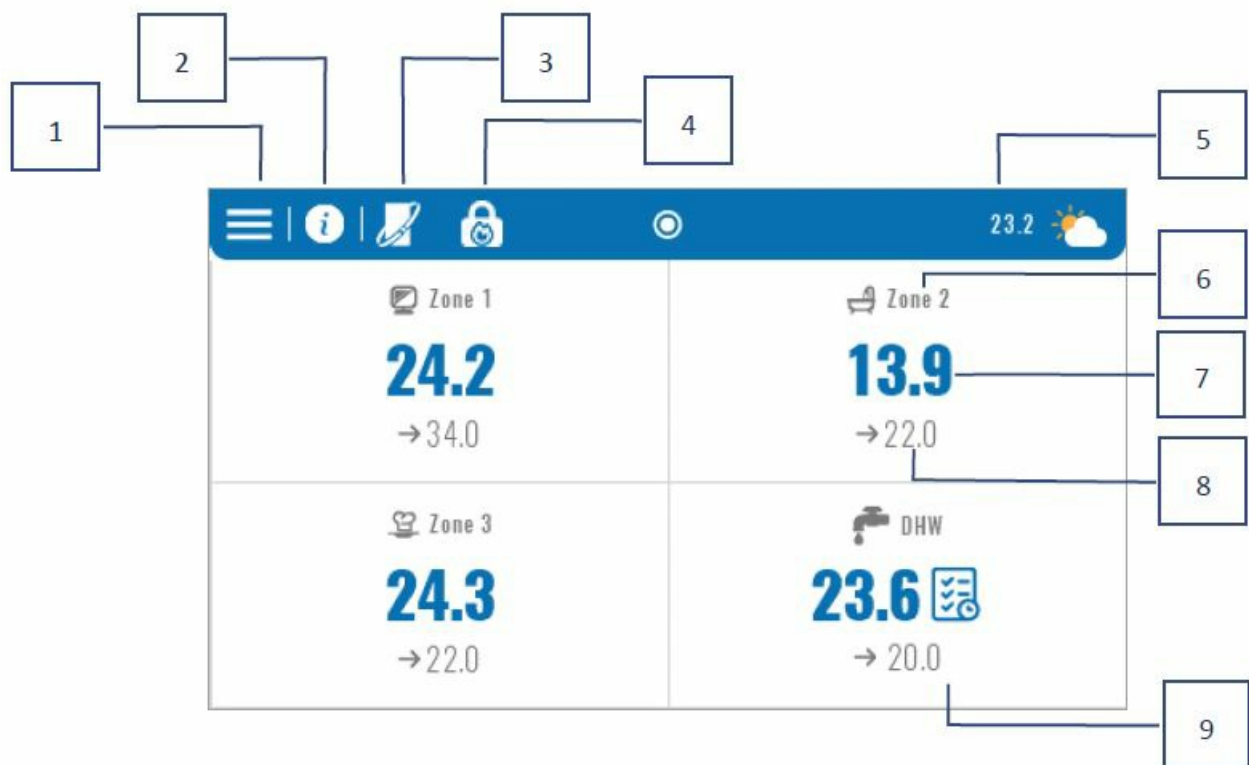system version – version of the device (EU-L-12, EU-ML-12, EU-M-12) communication protocol.
CAUTION
Once the factory settings have been restored or the panel has been unregistered from the EU-L-12, the registration process must be repeated.
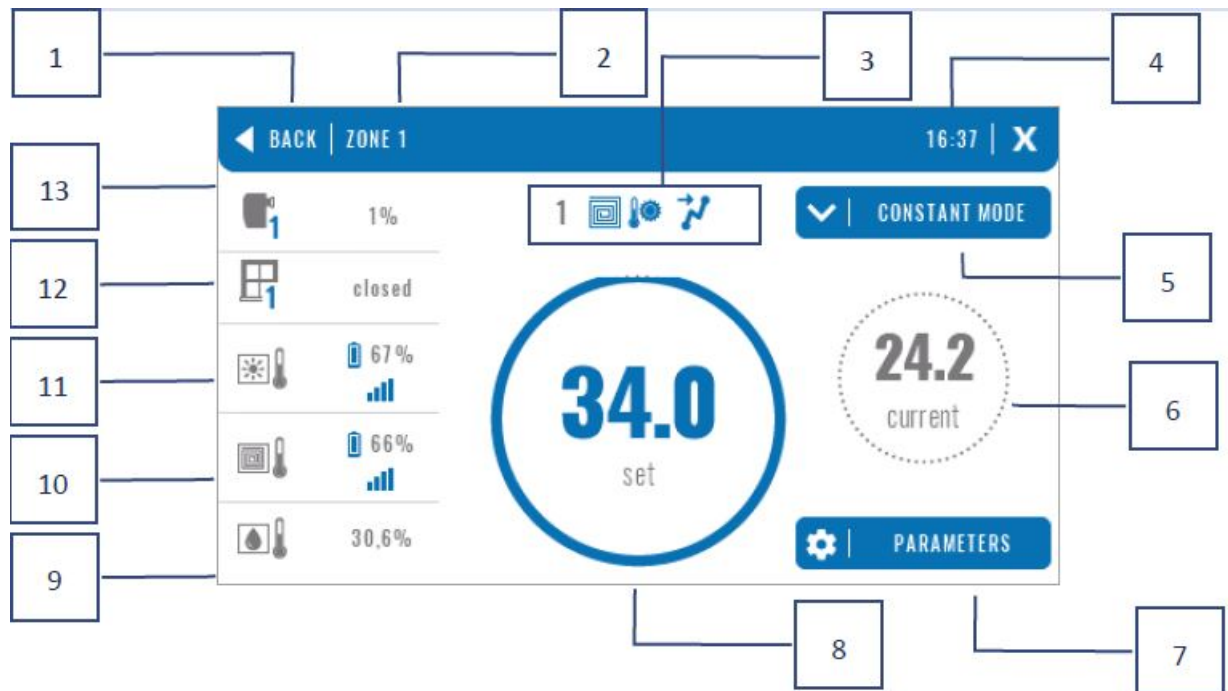
MAIN SCREEN DESCRIPTION

MAIN SCREEN

1. Enter the Controller Menu

2. Panel information, e.g. connected modules, operation modes, external sensor, etc. (viewable after clicking this area)

3. OpenTherm enabled (information viewable after clicking this area)

4. Function enabled: Heating stopping from date

5. Outdoor temperature or current date and time (after clicking this area)

6. Zone name

7. Current temperature in the zone

8. Pre-set temperature

9. Additional information tile

ZONE SCREEN

1. Exiting the Zone screen to the main screen

2. Name of the zone

3. Zone status (table below)

4. Current time

5. Active operation mode (can be changed from the screen by clicking this area)

6. Current zone temperature, after clicking the floor temperature (if a floor sensor is registered),

7. Entering the parameters menu of the displayed zone (possible change from the screen after clicking this area), detailed description below

8. Zone pre-set temperature (possible change from the screen after clicking on this mode)

9. Information about the registered humidity sensor

10. Information about the registered floor sensor

11. Information about the registered room sensor

12. Information about the registered window sensors

13. Information on registered actuators

ZONE STATUS ICON TABLE

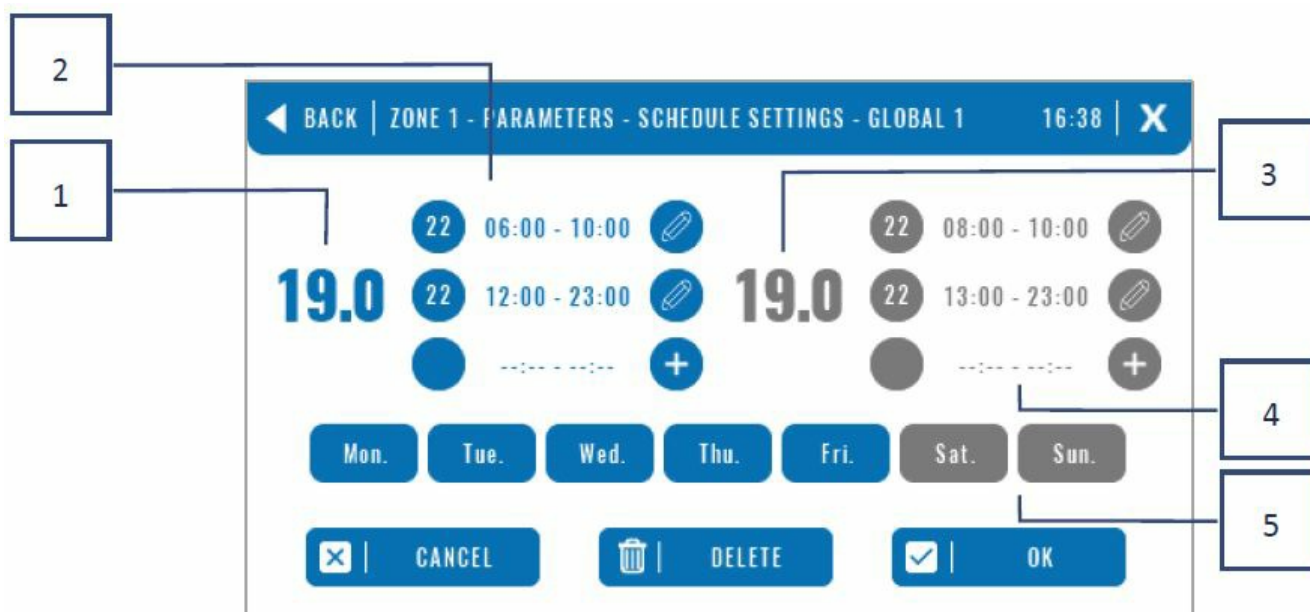|			
⚠	Zone alarm	❄	No cooling due to humidity
🔥+	Zone currently heated	🔳!🔳	Floor overheated
❄+	Zone currently cooled	🔳❄🔳	Floor underheated
!!	Open windows in the zone (no heating/cooling)	🔳	Floor sensor active
🔥	Heating disabled in options	🌡	No heating due to weather control
❄	Cooling off in options	↗	Optimum Start Enabled
⊘	Pump is switched off	OFF	Voltage-free contact off

PARAMETER MENU

- Activity – the function is used to enable/disable the zone. When the zone is disabled, it will not be displayed on the main screen of the controller.
- Pre-set temperature – enables the editing of the pre-set temperature in a given zone
- Timer-controlled – the user sets the duration of the pre-set temperature, after this time, the temperature resulting from the set operation mode will apply
- Constant – the user sets the pre-set temperature. This will apply permanently until it is switched off.
- Operation mode – The user has the option to select the operation mode.
- Local schedule – Schedule settings that only apply to this zone
- Global Schedule 1-5 – These schedule settings apply to all zones
- Constant temperature – this function allows setting a separate pre-set temperature value that will be valid in a given zone permanently
- Time limit – the function allows setting a separate temperature that will be valid only for a specific period of time. After this time, the temperature will result from the previously applicable mode (schedule or constant without time limit).
- Schedule settings – the option to edit the schedule settings.
- Local schedule – Schedule settings that only apply to this zone
- Global Schedule 1-5 – These schedule settings apply to all zones.

The user can assign days of the week to 2 groups (marked in blue and gray). In each group, it is possible to edit separate pre-set temperatures for 3 time intervals. In addition to the designated time intervals, the general pre-set temperature will apply, the value of which can also be edited.

1.

The overall pre-set temperature in the first group of days (days highlighted in blue, in the example above these are working days: Monday – Friday). This temperature will apply in the zone outside the designated time periods.

2. Time intervals for the first group of days – pre-set temperature and time frame. Clicking in the area of the selected time period will take you to the editing screen of its settings.

3. The general pre-set temperature in the second group of days (days highlighted in gray, in the example above it is Saturday and Sunday).

4. Time intervals for the second group of days – pre-set temperature and time frame. Clicking in the area of the selected time period will take you to the editing screen of its settings.

5. Groups of days: the first – Mon-Fri and the second – Sat-Sun

- To assign a given day to a specific group, just click in the area of the selected day
- To add time intervals, click in the area of the "+" sign.

CAUTION
The pre-set temperature can be set to within 15 minutes. In the event that the time intervals set by us overlap, they will be highlighted in red. Such settings cannot be approved.

CONTROLLER FUNCTIONS

Menu

- Operation mode
- Zones
- Controller settings
- Software update
- Fitter's menu
- Service menu
- Factory settings

OPERATION MODE
The function allows you to activate the selected operation mode in all controllers for all zones. The user has a

choice of normal, holiday, economy and comfort modes. The user can edit the factory mode values using the EU-M-12 panel or the EU-L-12 and EU-ML-12 controllers.

NORMAL MODE

- The pre-set temperature depends on the set schedule.
- Menu → Zones → Master Module → Zone 1-8 → Operation Mode → Schedule… → Edit

HOLIDAY MODE

- The pre-set temperature will depend on the settings of this mode.
- Menu →Fitter's menu → Master Module → Zones > Zone 1-8 → Settings → Temperature Settings > Holiday Mode

ECONOMY MODE

- The pre-set temperature will depend on the settings of this mode.
- Menu → Fitter's menu → Master Module → Zones > Zone 1-8 → Settings → Temperature Settings > Economy Mode

COMFORT MODE

- The pre-set temperature will depend on the settings of this mode.
- Menu → Fitter's menu → Master Module → Zones > Zone 1-8 → Settings → Temperature Settings > Comfort Mode

CAUTION

- Changing the mode to holiday, economy and comfort will apply to all zones. It is only possible to edit the setpoint temperature of the selected mode for a particular zone.
- In operation mode other than normal, it is not possible to change the pre-set temperature from the room controller level.

ZONES

- The function is used to enable/disable individual zones in the controllers. If a zone is blank and cannot be marked, it means that no sensor or room controller has been registered in it.
- Zones 1-8 are assigned to the main controller (EU-L-12), while zones 9-40 are assigned to EU-ML-12 in the order in which they were registered.

Documents / Resources

TECH CONTROLLERS EU-M-12 Wireless Control Panel [pdf] User Manual
EU-M-12 Wireless Control Panel, EU-M-12, Wireless Control Panel, Control Panel