



# PULSO Series

DIGITAL CONTROL  
Ecler Control Touch-Screen



## USER MANUAL

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# 1. PRECAUTIONS

## 1.1 Important Notice



**WARNING: SHOCK HAZARD - DO NOT OPEN**

**AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR**



The flashing light with an arrowhead symbol inside an equilateral triangle on it is intended to alert the user of the presence of non-insulated “dangerous voltage” within the enclosure, which might be of sufficient magnitude to pose a risk of electric shock to users.



The exclamation mark within an equilateral triangle is intended to alert the user of the requirement for important operating and maintenance (servicing), for which instructions may be found in the literature accompanying the appliance.

**WARNING (If applicable):** Terminals marked with symbol “⚡” may be of sufficient magnitude to pose a risk of electric shock. The external wiring connected to terminals requires installation by a technician, or the use of ready-made leads or cords.

**WARNING:** To prevent fire or shock hazard, do not expose this equipment to rain or humidity.

**WARNING:** A device with Class I manufacturing ought to be connected to a mains socket outlet with a protective earthing connection.



**WARNING:** Ecler products have a long lifetime of more than 10 years. This product must never be discarded as unsorted urban waste, but must be taken to the nearest electrical and electronic waste treatment centre.



**This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to part 15 of the FCC Rules.** Such limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference in radio communications. Operation of this equipment in a residential area might cause harmful interference, in which case, the user will be required to correct the interference at his own expense.

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## 1.2 Key Safety Directions

1. Read the following directions.
2. Keep the following directions.
3. Observe all warnings.
4. Follow all instructions.
5. Do not use this device in proximity to water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may release heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades, with one being wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, contact a qualified electrician for a replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at the plugs, convenience receptacles, and at the point of exit from the device.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the device during lightning storms or when unused for long periods.
13. Refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way, such as power supply cord or plug damage, liquid spillage or objects onto the device, the device has been exposed to rain or humidity, does not operate normally, or has been dropped.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket, therefore, it should always remain easily accessible
15. Equipment is connected to a socket-outlet with an earthing connection by means of a power cord.
16. The marking information is located at the bottom / rear of the unit.
17. The device shall not be exposed to dripping or splashing liquids, and no liquid-filled objects, such as a filled up glass, shall be placed on top of the device.

## 1.3 Cleaning Directions



**Clean the unit with a soft, dry clean cloth** or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents or abrasive substances to clean this unit.

**NEEC AUDIO BARCELONA, S.L.** accepts no liability for any damage that may be caused to people, animal, or objects due to failure to comply with the warnings above.

## 2. WARRANTY & ENVIRONMENT

**Thank you for choosing our Ecler PULSO Series device !  
We greatly value your trust.**

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its **contents before any connecting takes place** in order to make the best use of this equipment, as well as to get the best performance from it.

To ensure optimal operation of this device, **we strongly recommend that its maintenance be carried out by our authorised Technical Services.**

**All ECLER products are covered by warranty**, please refer to [www.ecler.com](http://www.ecler.com) or the warranty card included with this product for the period of validity and conditions.



**Ecler is truly committed with the environment and planet sustainability, energy saving and CO<sub>2</sub> emission reduction.** Recycling materials and using non-contaminant components are also top priorities in our green crusade.

**Ecler has deeply evaluated and analyzed the environmental impacts of all the processes involved in the production of this product, including packaging, and has alleviated, reduced and/or compensated for them.**

## 3. PACKAGE CONTENTS

- 1 unit of a PULSO Series model.
- Security screws
- First Steps Guide.
- Warranty card.

## 4. DESCRIPTION & FEATURES

**PULSO is a digital control touch panel compatible with several Ecler product families.** Its elegant and discreet design makes it the perfect choice as a control surface in any interior design. The PULSO series includes three models: **PULSO-4** that is 4", **PULSO-6** (5.5") and **PULSO-10** (10"), all models with IPS display and capacitive touch surface, to meet any installation requirement.

All models are compatible with standard European flush-mounted electrical boxes and support PoE power, ensuring quick and easy installation and set-up. The web control interface allows unprecedented configuration and maintenance. PULSO is compatible with the VIDA and HALO series, the HUB series (with the Pilot application), EclerNet Manager (hosting UCP panels) and it's ready for the upcoming EclerPLEX ecosystem whose compatibility allows the creation of nearly limitless control surfaces.

### 4.1 Main Features

- IPS screen.
- Capacitive & multitouch panel.
- PoE compatible.
- 12VDC-2A External PSU compatible (not Included).
- Web interface for device configuration and management.
- Compatible with Ecler VIDA, HALO, HUB, EclerPLEX and EclerNet Manager products.
- Fully customized user panels.
- Standard EU round electrical box compatible

## 5. INSTALL & CONNECT

**⚠ Non-compliance with the instructions or neglecting warnings may cause malfunction or even damage the unit.**

### 5.1 Installation

PULSO series is suitable for flush and desktop mount.

#### 5.1.1 Flush Mount

PULSO is equipped with a bracket that allows flush mounting.

This bracket allows installation in standard European round electrical boxes. These boxes have fixing screws spaced 60mm apart, and the bracket allows both horizontal and vertical mounting.

Mount the bracket with two screws to the electrical box, connect the network cable (add the PSU if PULSO is not powered by PoE) and proceed to secure the device with security screws or classic locking screws to complete the installation.



PULSO-10



PULSO-6



PULSO-4

**💡 Make sure that the depth of the electrical box is sufficient to provide space for the Ethernet network cable. Some RJ-45 connectors may take up more space than others.**

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### 5.1.2 Desktop Mount

Ecler is currently developing a desktop/wall mount accessory. More information will be available soon.

## 5.2 Mains Connection

PULSO series **has two main power supply options:**

- PoE (Power over Ethernet):** The RJ-45 connector used for the network connection of the device, can also provide DC power if the switch or the network connection supports it. The power requirements in this case are guaranteed by the standard PoE version that goes under the IEE802.3af features. This option simplifies mounting and installation, using a single cable for data and power.



- DC power supply:** In case PoE power supply is not available, the device can be powered by using the Euroblock plug-in connector. It can be recognised by the “DC 12V” indication. The product **does not include** a 12V DC power supply but any standard 12VDC-2A power supply is suitable for this product.



**!** Pay close attention to the polarity of the power supply when connecting the power supply to the Euroblock connector. Any damage due to polarity inversion is not covered by Ecler's warranty.

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## 6. START-UP & OPERATION

### 6.1 Start Up

Once power is supplied to the device, either PoE or from the external power supply, the device will switch itself on and stay on.

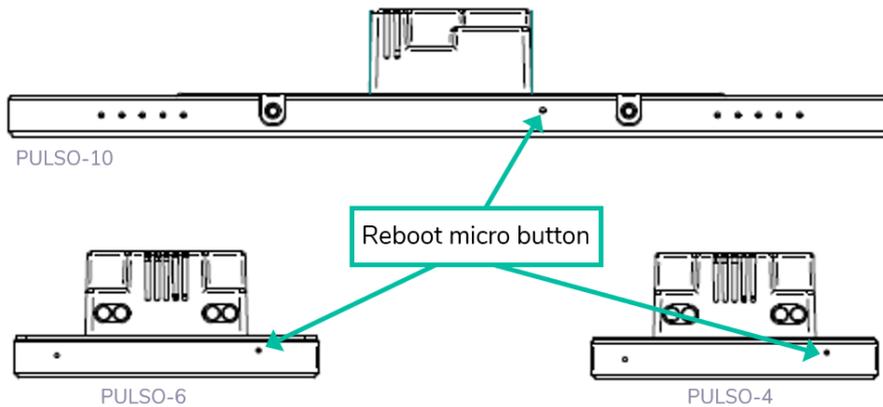


 Through the device's local Admin page or web interface, it is possible to configure the [automatic screen switch-off](#) and select the application to control the desired Ecler product series. The chosen application will automatically start on the next reboot after a 10-second timeout.

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## 7. PANEL FUNCTIONS

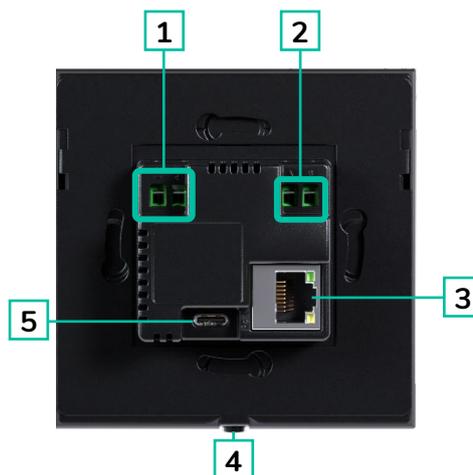
### 7.1 Reboot Button



Press the Reboot micro button by using a pin to perform a manual reboot. This will interrupt the power supply for a few seconds, allowing the device to reboot and access to the [PULSO Admin Log page](#).

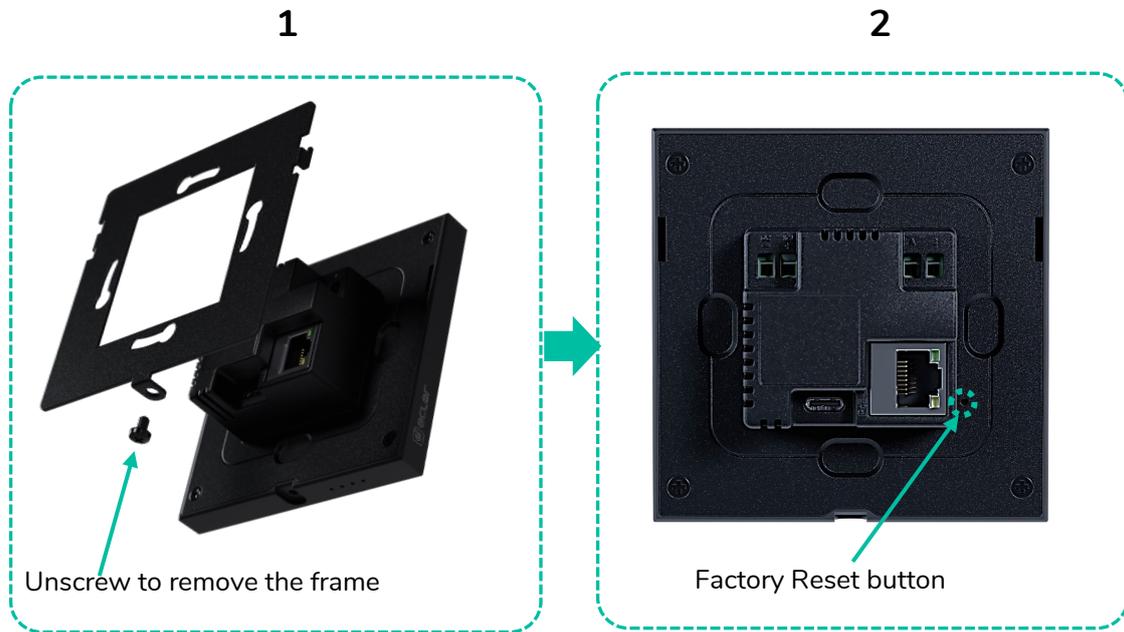
Alternatively, a reboot can also be performed through the WebGUI on Settings page, Device screen, [Boot-Up option](#) or the Web interface.

### 7.2 Rear Panel

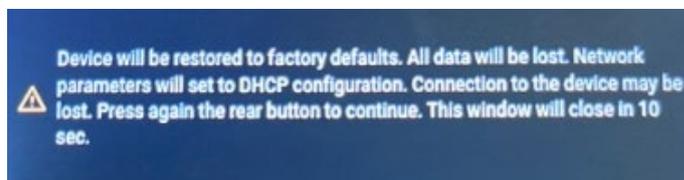


1. **External power supply connection** - 12VDC/2A (PSU not included).
2. **RS-232 connector** (for future use).
3. **RJ-45 connector** – PoE and Network.
4. **Screw to remove the frame** (1 screw for PULSO -4 and PULSO-6 and 2 screws for PULSO-10).
5. **USB-C Service port** (not in use)

## 7.3 Factory Reset



To reset the product to factory settings, press the micro button indicated above with a pin. A pop-up window will appear:



As soon as the pop-up screen appears, press the reset button once again to perform the factory reset. Otherwise, the pop-up window will disappear in 10 seconds.

Alternatively, it is also possible to perform a Restore Defaults via the device settings page or the web interface. [For further details, see Boot -Up section.](#)

## 8. TECHNICAL DATA

### 8.1 Technical Specification

#### 8.1.1 PULSO-4

##### PULSO-4

PI		
	Processor	Quad-Core ARM, up to 1.8GHz
SCREEN/DISPLAY		
	Size	4"
	Resolution	480 x 480 pixels
	Contrast Ratio	800:1
	Brightness	350 cdm2
	Scale	1:1
	Display	4" IPS Active area 71.86(W)x70.18(H)mm
	Backlight	LED
	Touch-panel	5 points capacitive touch panel
MONITORING AND CONTROL		
	Buttons	Reboot and Factory Reset micro buttons
CONNECTIVITY		
	Ethernet	1 RJ-45 connector, cable: Cat-5e or better 10 /100Mb, 1GB Auto X-Over Supports PoE
	Serial port	RS-232, Euroblock connector
	Programing and control	Embedded application. Compatible with Ecler prodcuts ENM, EPX, VIDA, HALO, HUB.
ELECTRICAL		
	Power supply	DC 12V 2A & PoE
	PoE	Class 0 802.3af Poe PD compliant
	Max power consumption	6W
PHYSICAL		
	Type	Control touch panel
	Format	Standard EU single-gang compatible
	Installation options	In-wall and desktop (with optional accessory) mount
	Operating temperature	Min: -10°C ; 14°F Max: 60°C ; 140°F
	Operating humidity	≤75%
	Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Storage humidity	≤75%
	Included accessories	Security screw
	Optional accessories	Pulso Desktop Mount (under development)
	Dimensions (WxHxD)	89.34 x 89.34 x 37 mm / 3.52 x 3.52 x 1.46 in.
	Weight	0.15 Kg / 0.33 lb
	Shipping dimensions (WxHxD)	145 x 80 x 130 mm / 5.71 x 3.15 x 5.12 in
	Shipping weight	0.37 Kg / 0.82 lb



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## 8.1.2 PULSO-6

### PULSO-6

PI		
	Processor	Quad-Core ARM, up to 1.8GHz
SCREEN/DISPLAY		
	Size	5.5"
	Resolution	720 x 1280 pixels
	Contrast Ratio	1000:1
	Brightness	400 cdm <sup>2</sup>
	Scale	9:16
	Display	5.5" IPS Active area 62.08(W)x110.40(H)mm
	Backlight	LED
	Touch-panel	5 points capacitive touch panel
MONITORING AND CONTROL		
	Buttons	Reboot and Factory Reset micro buttons
CONNECTIVITY		
	Ethernet	1 RJ-45 connector, cable: Cat-5e or better 10 /100Mb, 1GB Auto X-Over Supports PoE
	Serial port	RS-232, Euroblock connector
	Programing and control	Embedded application. Compatible with Ecler products ENM, EPX, VIDA, HALO, HUB.
ELECTRICAL		
	Power supply	DC 12V 2A & PoE
	PoE	Class 0 802.3af Poe PD compliant
	Max power consumption	7W
PHYSICAL		
	Type	Control touch panel
	Format	Standard EU single-gang compatible
	Installation options	In-wall and desktop (with optional accessory) mount
	Operating temperature	Min: -10°C ; 14°F Max: 60°C ; 140°F
	Operating humidity	≤75%
	Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Storage humidity	≤75%
	Included accessories	Security screw
	Optional accessories	Pulso Desktop Mount (under development)
	Dimensions (WxHxD)	82.5 x 146 x 37 mm / 3.25 x 5.75 x 1.46 in.
	Weight	0.19 Kg / 0.42 lb
	Shipping dimensions (WxHxD)	180 x 63 x 105 mm / 7.09 x 2.48 x 4.13 in.
	Shipping weight	0.33 Kg / 0.73 lb

	
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### 8.1.3 PULSO-10

#### PULSO-10

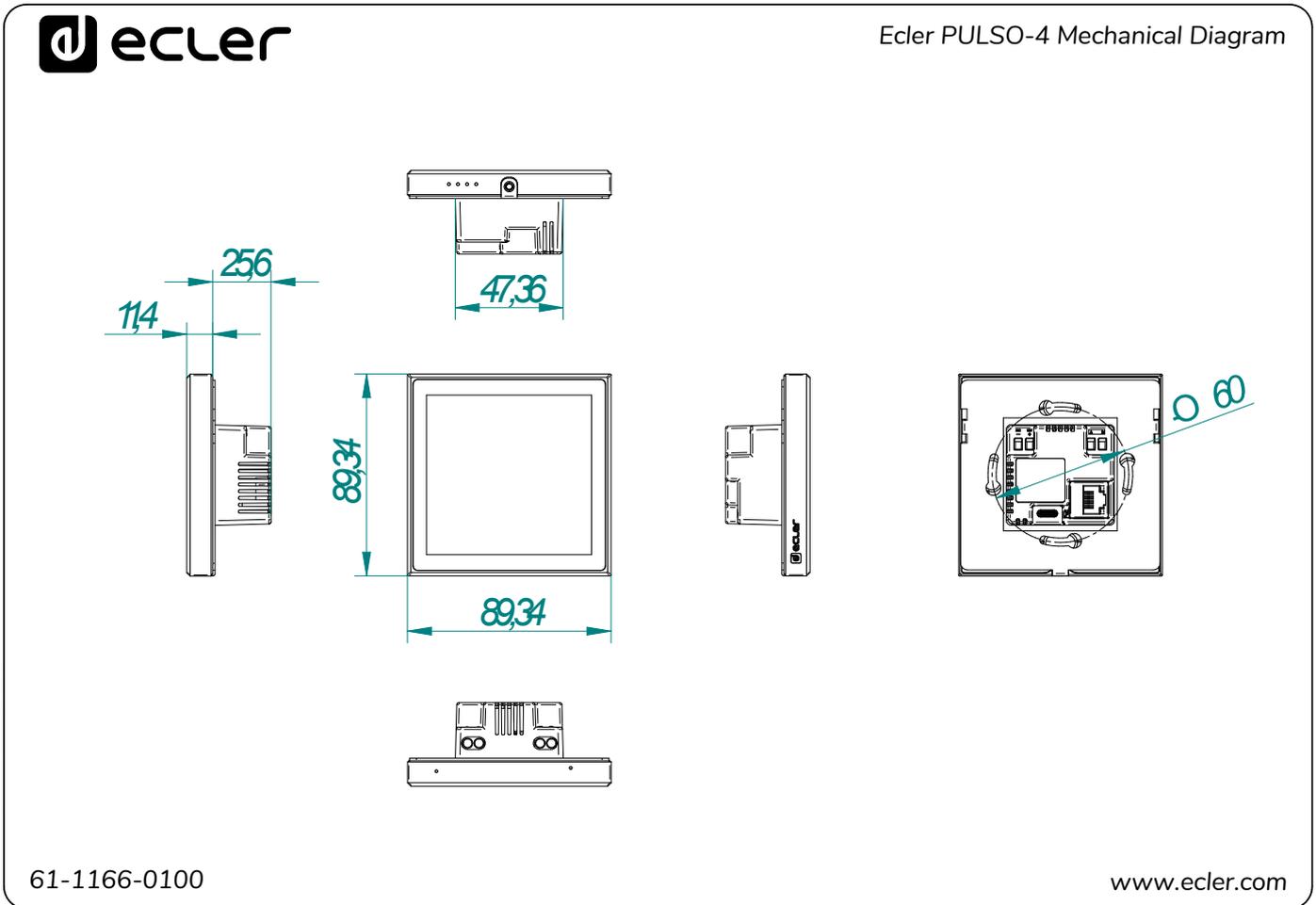
PI		
	Processor	Quad-Core ARM, up to 1.8GHz
SCREEN/DISPLAY		
	Size	10"
	Resolution	1280 x 800 pixels
	Contrast Ratio	1000:1
	Brightness	500 cdm <sup>2</sup>
	Scale	16:9
	Display	10" IPS Active area 216.58(W)x135.36(H)mm
	Backlight	LED
	Touch-panel	10 points capacitive touch panel
MONITORING AND CONTROL		
	Buttons	Reboot and Factory Reset micro buttons
CONNECTIVITY		
	Ethernet	1 RJ-45 connector, cable: Cat-5e or better 10 /100Mb, 1GB Auto X-Over Supports PoE
	Serial port	RS-232, Euroblock connector
	Programing and control	Embedded applications. Compatible with Ecler products ENM, EPX, VIDA, HALO, HUB
ELECTRICAL		
	Power supply	DC 12V 2A & PoE
	PoE	Class 0 802.3af Poe PD compliant
	Max power consumption	9W
PHYSICAL		
	Type	Control touch panel
	Format	Standard EU single-gang compatible
	Installation options	In-wall and desktop (with optional accessory) mount
	Operating temperature	Min: -10°C ; 14°F Max: 60°C ; 140°F
	Operating humidity	≤75%
	Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
	Storage humidity	≤75%
	Included accessories	Security screws
	Optional accessories	Pulso Desktop Mount (under development)
	Dimensions (WxHxD)	258.84 x 176.54 x 37.2 mm / 10.19 x 6.95 x 1.46 in.
	Weight	0.68 Kg / 1.50 lb
	Shipping dimensions (WxHxD)	310 x 63 x 215 mm / 12.20 x 2.48 x 8.46 in.
	Shipping weight	1.08 Kg / 2.38 lb

	
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## 8.2 Mechanical Diagram

### 8.2.1 PULSO-4

All measurements are in mm.

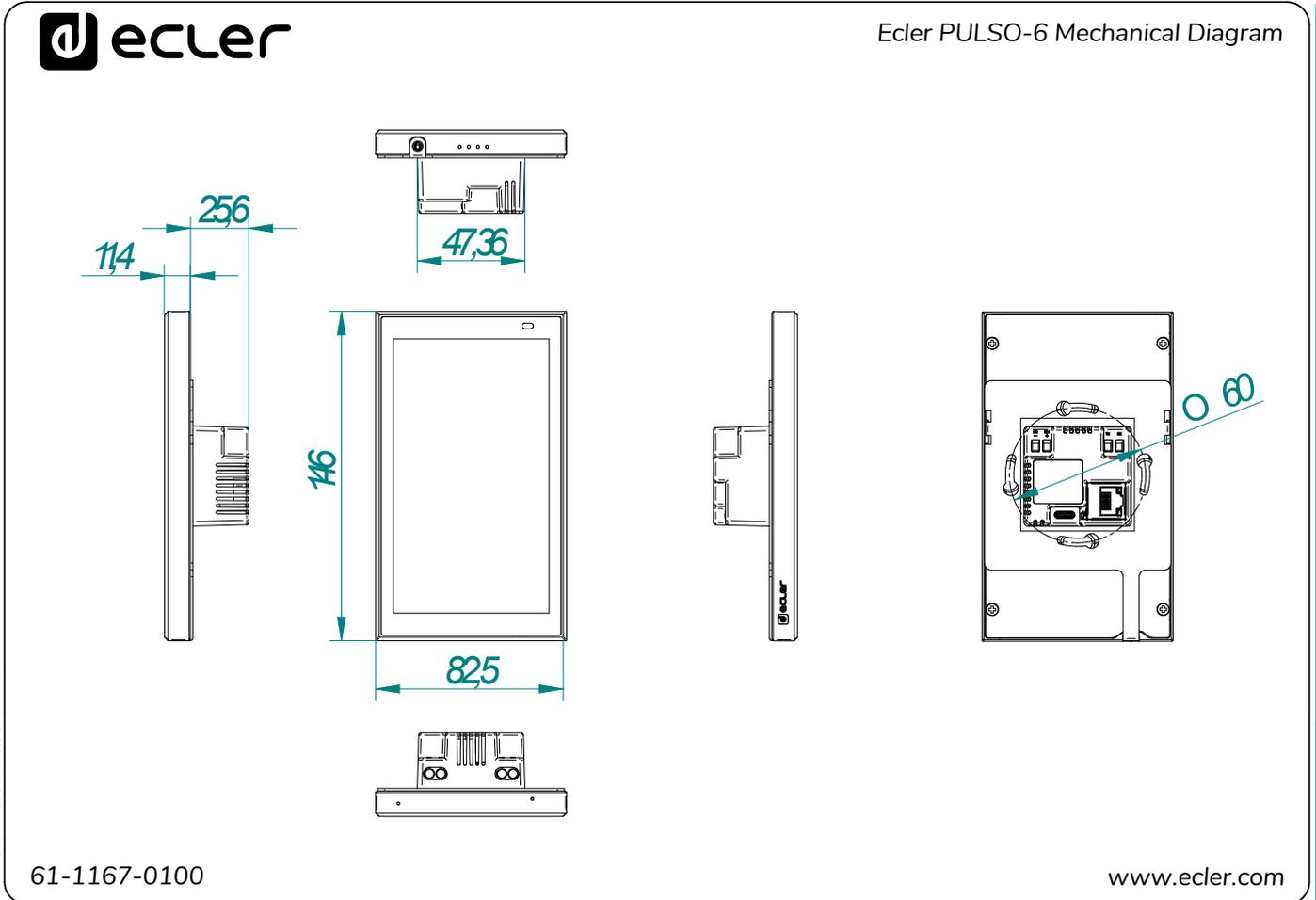


All the measurements are in mm

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## 8.2.2 PULSO-6

All measurements are in mm.

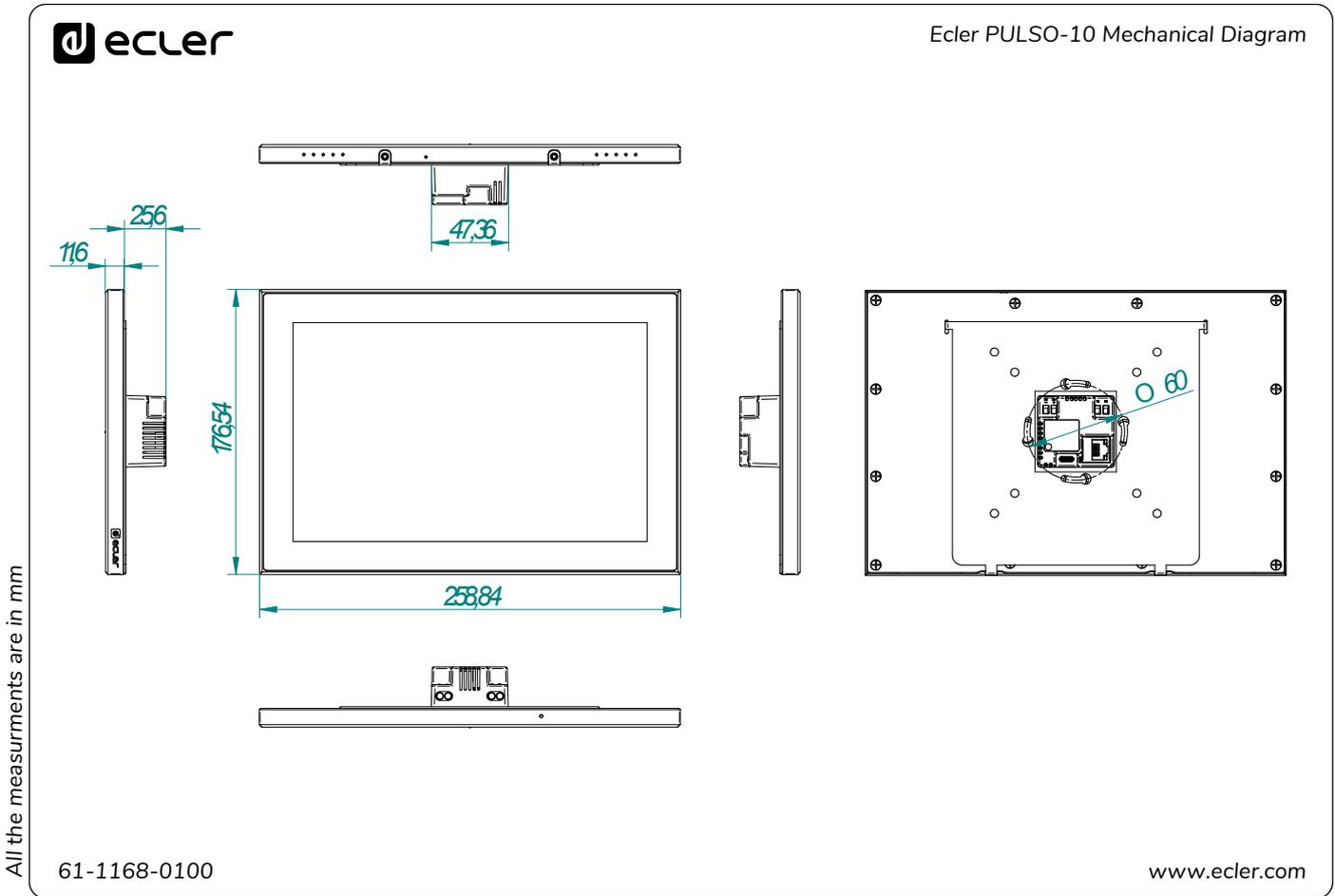


All the measurements are in mm

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### 8.2.3 PULSO-10

All measurements are in mm.



All the measurements are in mm

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## 9. WebGUI and Settings Screen

PULSO series can be configured locally via its own Admin page or remotely using the web interface. Access to the web interface is possible via any web browser on devices such Windows, MacOS, tablets or smartphones.

**!** The Web application not optimized for smartphones. We recommend using it on a PC or tablet.

Through the device Admin interface or the web interface, it is possible to know and change the device's network parameters, the screen modes, and above all, it is possible to choose the application with which PULSO will start up in the following reboots.

**!** We recommend updating your browser to the latest version to ensure that the app functions correctly.

**💡 Demo version available.** Visit <https://testing.ecler.com/PULSO/1/admin/> and access the PULSO application online – **physical connection to a PULSO device is not required** – and explore the capabilities of these devices. Note that **some functionalities**, such as firmware update, **will not be available since they require a physical connection to a PULSO device.**

### 9.1 Available applications

- **EclerPLEX** (EclerPLEX user panels).
- **UCP** (EclerNet user panels).
- **VIDA** (VIDA user panels).
- **PILOT** (HUB series user panels).
- **Web browser** (Allow access to third party web-based graphic user interfaces).

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## 9.2 WebGUI First steps

To access the PULSO web application from an external device (computer, tablet, etc.) using a browser, first **make sure that both devices are physically connected to the same local area network (LAN) and configured within the same network range.**

**DHCP is the default network configuration mode.** If you have a router/switch with a DHCP server enabled (see the specifications for your device), **network configuration is automatic so there is no need for you to do any re-configuration.** In case there is no active DHCP server in the network, PULSO will automatically configure its address in the auto-ip range 169.254.x.y

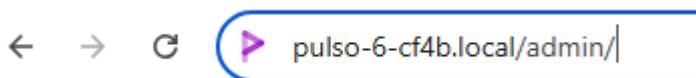
There are **3 ways to access to PULSO settings:**

### 9.2.1 PULSO Local Admin Interface

1. Power up PULSO by PoE or external power supply.
2. If the device comes with factory settings, at start-up the screen will remain in the Admin login page. If a control application has already been selected, there will be 10 seconds available to access the Admin login page before the selected application starts.
3. Enter the default password: admin
4. Using the configuration menus, it will be possible to configure the device. It's possible to select the default application that will automatically starts 10 seconds after the logout or the next reboot, configure the network settings, the screen brightness etc.

### 9.2.2 Automatic Connection Via Web Interface

1. Power up PULSO by PoE or external power supply and ensure it is connected to the same network of your browser-equipped device.
2. Connect your browser-equipped device (computer, tablet, etc.) to the same local network (router/switch) and ensure that it is in the same network range.
3. Check the label on the rear panel and enter the indicated web address (e.g. `http://PULSO-6-xxxx.local/admin`) into your browser. The last 4 digits of the web address are the same as the last digits of the device MAC address.
4. Enter that address in your browser and login with the default password: "admin".



5. Using the configuration menus, it will be possible to configure the device, and it will be possible to select the default application that will automatically starts 10 seconds after the next reboot.

### 9.2.3 Manual Connection Via Web Interface

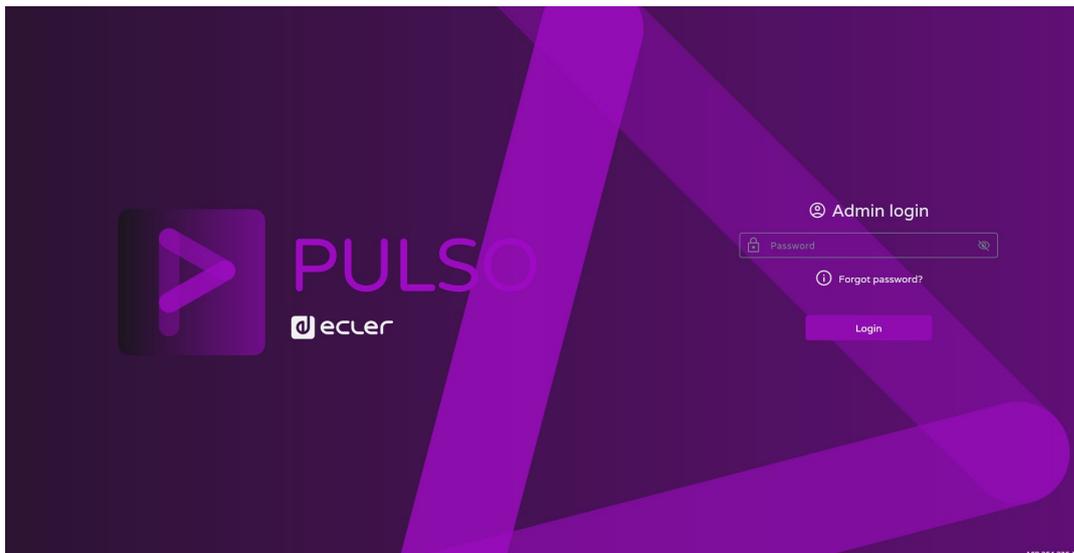
1. Power up PULSO by PoE or external power supply and ensure it is connected to the same network of your browser-equipped device.
2. If the device comes with factory settings, at start-up the screen will remain in the Admin login page. If a start-up application has already been selected, there will be 10 seconds available to access the Admin login page before the selected application starts.
3. Enter the default password: “admin”.
4. Using the Settings menus, it will be possible to check or configure the Network settings. In case a DHCP server is not available it will be possible to use the **auto-ip address** (<http://169.254.x.y/admin>) or to **assign a static IP address** and use it to access via the web interface just typing the IP/admin directly into the browser. (e.g. <http://192.168.1.22/admin>).
5. Using the configuration menus, it will be possible to configure the device, and it will be possible to select the default application that will automatically starts 10 seconds after the next reboot.

### 9.2.4 Connection via EclerCLOUD

EclerCLOUD for PULSO is currently under development. More information will be available soon.

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### 9.3 Login



There are only **1 profile** that can access the PULSO settings.

- **Administrator:** An administrator has access to all settings of PULSO device and can configure any parameter. The administrator is intended as the installer of the system.



Once the start-up application is selected, the **end user** will have access **only to the control application** selected by the administrator.

**!** Administrator and user access are password-protected. The default administrator access credentials are:

- Password: admin

**💡** The administrator is allowed to change the password. [For further details see Admin Password section.](#)

**💡** Passwords are case-sensitive.

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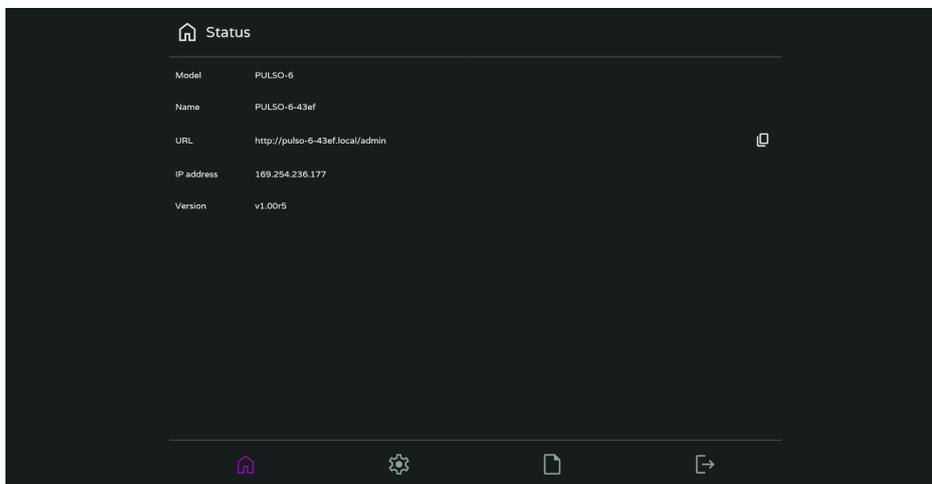
### 9.3.1 Forgot password

In the event that the password has been forgotten, perform a factory reset using the button on the rear panel of the device. Then all settings will be restored to default values, including the administrator password. [For further details, see Factory Reset section.](#)

Administrator access credentials will be restored to the default values: admin.

### 9.3.2 Status

This page is a summary of the device settings:

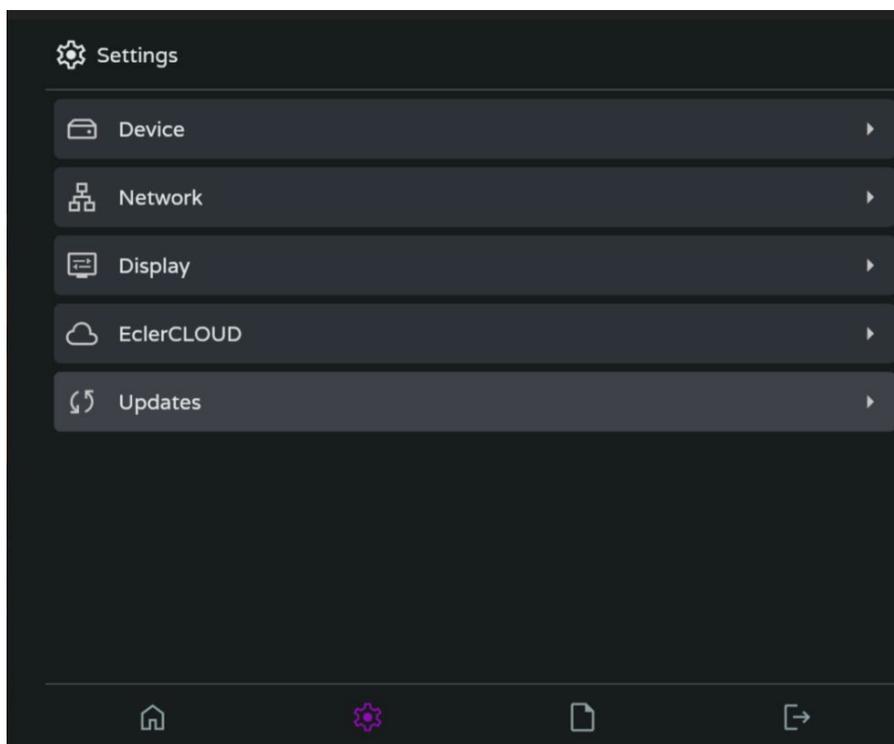


- **Model:** indicates the model of the device
- **Name:** indicates the name assigned to the device. By default, the name is composed by the model and the last 4 digits of the MAC address. It can be edited on [Device Settings](#).
- **URL:** indicates the address to be typed into the browser navigation bar to access the web interface. As a rule, it consists of **name.local/admin**.
- **IP address:** indicates the device IP address that can be configured via [Network Settings](#).
- **Version:** indicates the device version.
- **Application in use:** indicates the application selected by the Admin as the default application that launches automatically each time the device is restarted.

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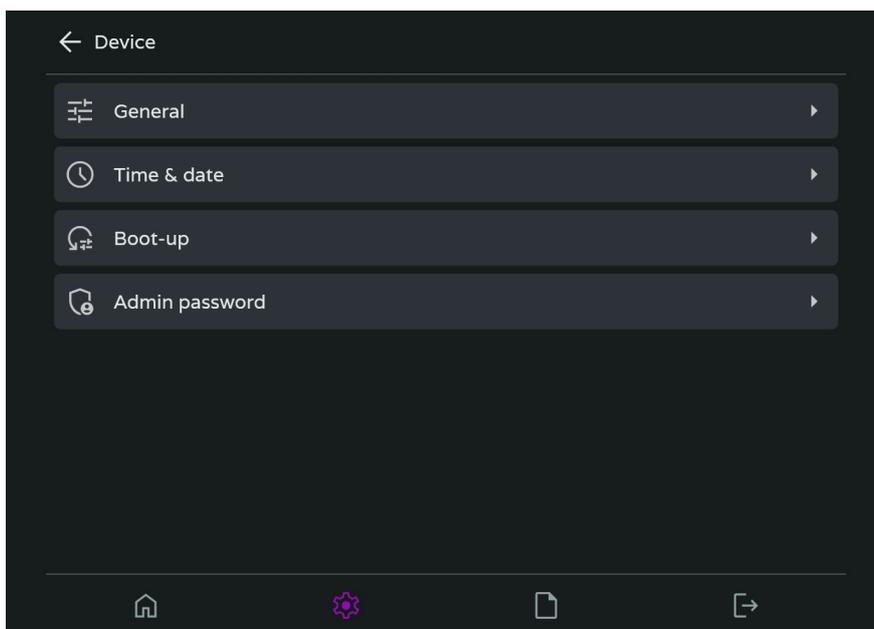
### 9.3.3 Settings

From this page it is possible to access the different configuration menus of the device.

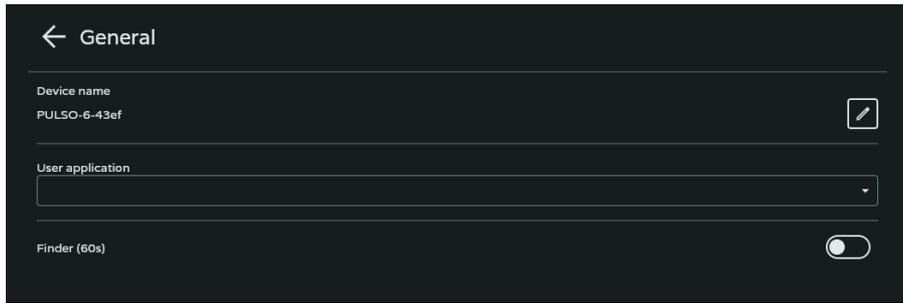


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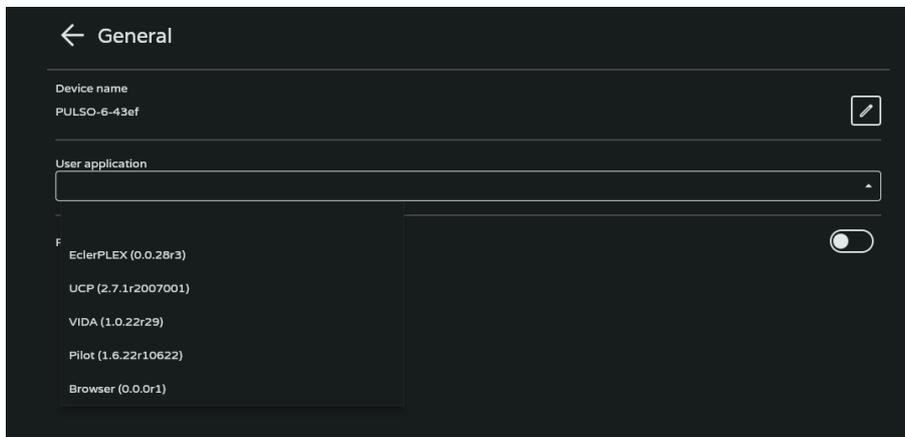
#### 9.3.3.1 Device



### 9.3.3.1.1 General

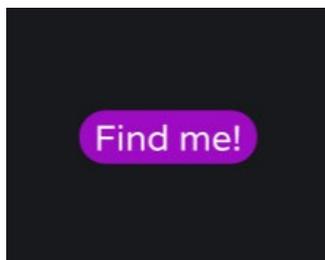


- **Device name:** The name is used to identify the device on the network as well as mDNS (to resolve hostnames to IP addresses).
- **User application:** Allows to select the application with which to use PULSO at each reboot, in order to control a specific series of Ecler products.



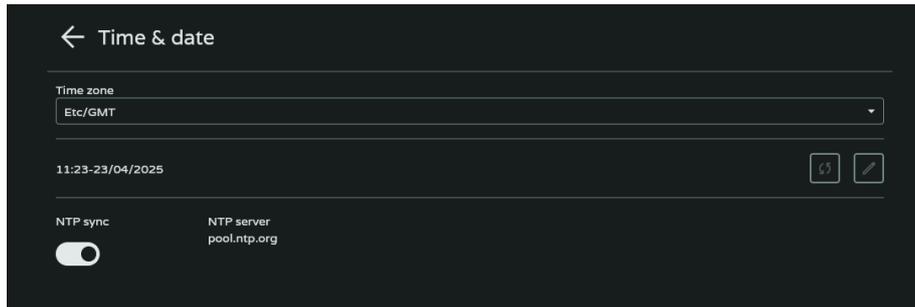
For further information on the applications, please refer to [www.ecler.com](http://www.ecler.com).

- **Finder:** By activating this function, the message “Find me!” will appear on the device screen so that the product can be identified. If it is not disabled by the administrator, it will be automatically disabled after 60sec.



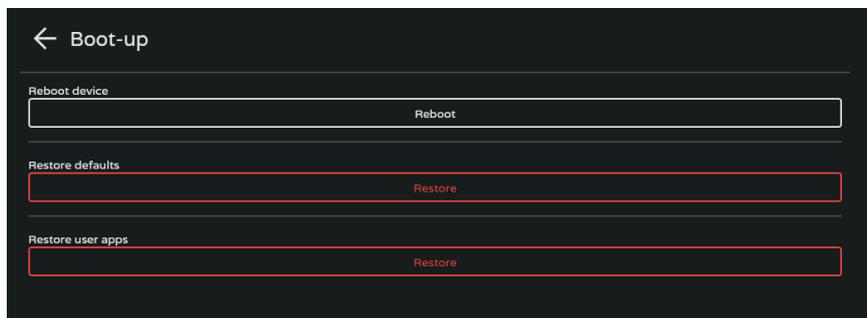
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### 9.3.3.1.2 Time and Date



- **Time Zone:** selection of time zone.
- **Time & Date:** time and date on the device.
- **NTP Synchronization:** enables or disables time synchronization with NTP server. Internet connection required. Enable this functionality for automatic time synchronization on the device.
- **NTP server:** address of the NTP server.

### 9.3.3.1.3 Boot-Up



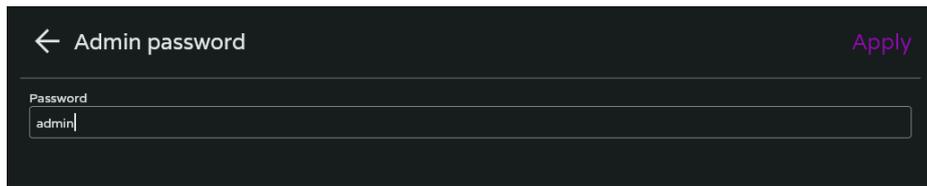
- **Reboot device:** reboot the device. The device will keep its current configuration on reboot.
- **Restore defaults:** restores the device's factory settings, except for those of applications. This reset includes the device name, network settings, display settings, date and time settings and the administrator password.

**The current network configuration and device name will be lost. May cause disconnection of the device from the local network.**

- **Restore user apps:** restores only settings and application data.

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### 9.3.3.1.4 Admin Password

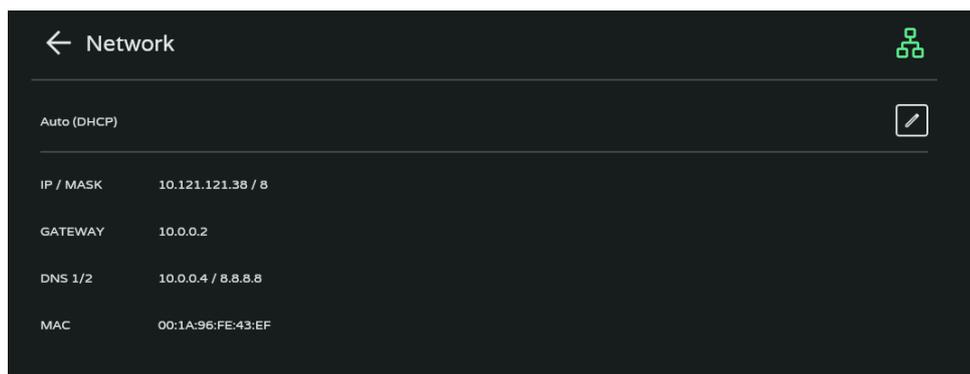


- **Password:** allows changing the login password to the administrator page.

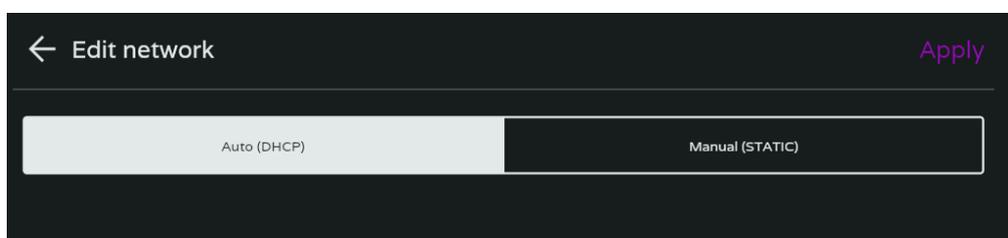
**!** To reset the password, perform a Factory Default using the micro button on the rear panel. All other parameters will be also restored to default. [For further details see Reboot Buttons section.](#)

### 9.3.3.2 Network

The Network menu allows to configure the network interface parameters of PULSO device.



- **Auto (DHCP) / Manual (STATIC):** It allows to choose whether the device will act as a client of a DHCP server for automatic configuration of network parameters, or whether the installer wishes to manually configure a static IP address.



**!** If there is no DHCP server in the network when PULSO is configured in Auto, the address will automatically configure its IP address in the range 169.254.x.y as defined by the auto-ip standard.

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Alternatively, all fields of the network settings can be configured manually.

Please remember to press “Apply” to make the new settings effective.

### 9.3.3.3 Display

- **Backlight:**
  - **On:** the display backlight is always on
  - **Dimmed:** after 15 seconds without touching the panel, backlighting is reduced to 50 per cent.
  - **Off:** after 15 seconds without touching the panel, backlighting is switched Off (Energy saving option).
- **Brightness:** allows to adjusted the display backlight.
- **Rotation:** PULSO devices include an accelerometer that automatically detects the mounting position and adjusts the interface automatically. In the case of a predetermined mounting position, it is possible to choose which angle to display the interface at. The 0 refers to the default position of the device (mounting screws at the bottom or PULSO start-up logo as reference).

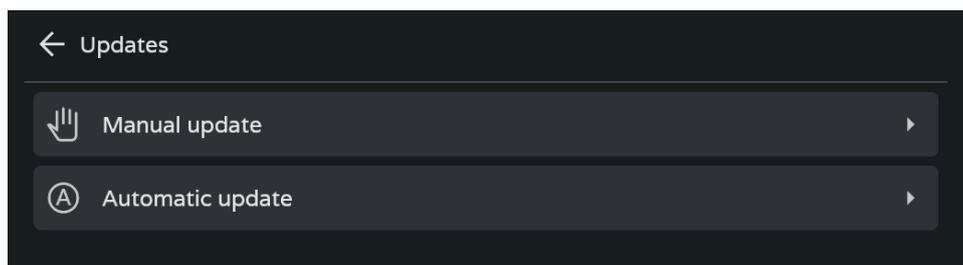
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### 9.3.3.4 EclerCLOUD (Coming soon)

This menu allows to link devices to the Ecler Cloud platform.

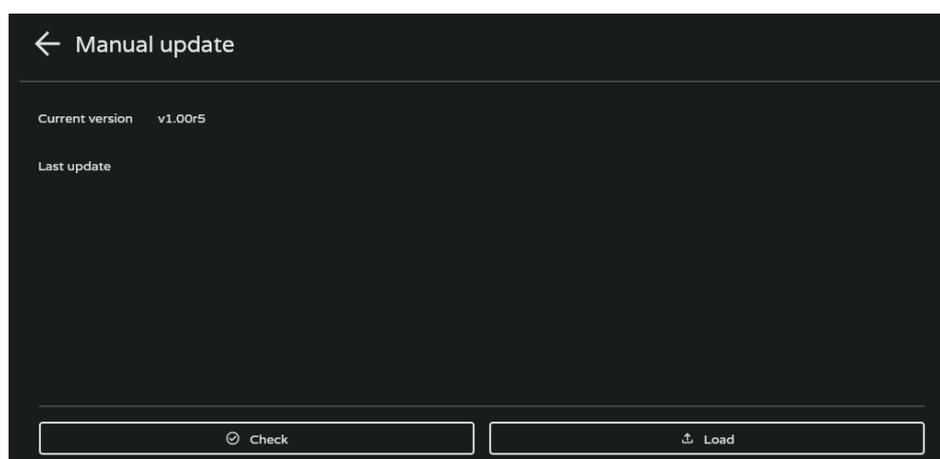
- **Enable connection:** allows you to enable/disable the connection to EclerCLOUD.
- **Connection status:** shows the status of the connection to EclerCLOUD (it can be in the following states: disconnected, connected and quarantined).
- **Last update:** indicates the last update of the CLOUD.
- **Organisation ID:** this is a value that can be extracted from the CLOUD organisation and is used to link the device.
- **Device ID:** this is a 16-digit hexadecimal value that identifies the device and is used to link it to EclerCLOUD.
- **Firmware URL:** copy the link of the firmware URL destination.
- **Unpair device:** to unpair the device from the EclerCLOUD platform.

### 9.3.3.5 Updates



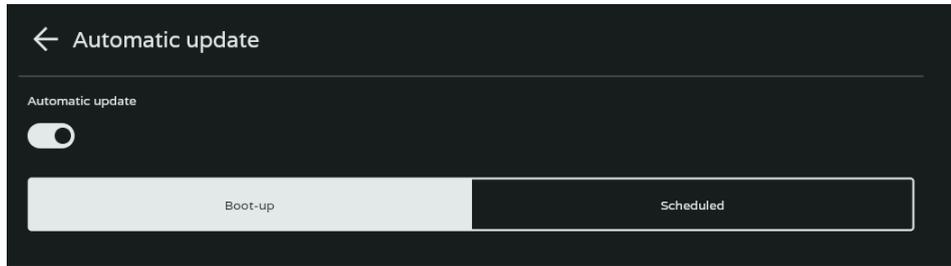
- **Manual update:** allows to check if there are new firmware versions available on the network (Internet connection required) and carry out the update. Alternatively, it is possible to upload a firmware update file (.bin).

 **This option is only available from a PULSO Web Interface.**



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- **Automatic update:** It allows you to schedule an automatic device update, either at boot time or on a specific day of the week at a certain time.



### 9.3.4 Log

This page allows to view all relevant events of the device, or any errors that occurred during the course of a day.

Date	Time	Type	Category	Description
25-04-23	13:25	Basic Inf.	Firmware	Is not possible to upgrade from v1.00r5 to v1.00r5 version*
25-04-23	13:25	Basic Inf.	Firmware	Firmware update checked manually (v1.00r5)*
25-04-23	13:25	Basic Inf.	Firmware	Available version is v1.00r5*
25-04-23	12:44	Basic Inf.	User	Admin user 'admin' logged in (manual) [#2]*
25-04-23	12:43	Basic Inf.	Boot	PULSO startup*
25-04-23	12:43	Basic Inf.	Network	NET1 IP:10.121.121.38/255.0.0.0 (auto)
25-04-23	12:43	Basic Inf.	Network	NET1 LINK up
25-04-23	12:43	Basic Inf.	Boot	Firmware version v1.00r5
25-04-23	11:01	Basic Inf.	Applications	Stopping app 'VIDA (1.0.22R29)'
25-04-23	11:01	Basic Inf.	Applications	Starting app 'VIDA (1.0.22R29)'
25-04-23	10:58	Basic Inf.	Applications	Stopping app 'VIDA (1.0.22R29)'
25-04-23	10:45	Basic Inf.	Applications	Starting app 'VIDA (1.0.22R29)'
25-04-23	10:44	Basic Inf.	Applications	Stopping app 'UCP (2.7.1R2007001)'
25-04-23	10:32	Basic Inf.	Applications	Starting app 'UCP (2.7.1R2007001)'
25-04-23	10:32	Basic Inf.	Applications	Stopping app 'PLEX (0.0.28R3)'
25-04-23	10:26	Basic Inf.	Applications	Starting app 'PLEX (0.0.28R3)'
25-04-23	10:17	Basic Inf.	Applications	Stopping app 'VIDA (1.0.22R29)'
25-04-23	10:17	Basic Inf.	Applications	Starting app 'VIDA (1.0.22R29)'
25-04-23	10:16	Basic Inf.	User	Admin user 'admin' logged in (manual) [#2]
25-04-23	10:15	Basic Inf.	ClientConnection	Removed client connection: closed 10.121.121.45 () [#2 2906.656s]
25-04-23	10:15	Basic Inf.	User	User 'admin' logged out after 2903.522s [#2]
25-04-23	09:27	Basic Inf.	Firmware	Is not possible to upgrade from v1.00r5 to v1.00r5 version
25-04-23	09:27	Basic Inf.	Firmware	Firmware update checked manually (v1.00r5)
25-04-23	09:27	Basic Inf.	Firmware	Available version is v1.00r5
25-04-23	09:27	Basic Inf.	User	Admin user 'admin' logged in (manual) [#2]

## 9.4 Applications Tips & Tricks

Once an application has been selected, PULSO will show a 10-second countdown each time it is restarted, after which it will automatically launch the selected application. Depending on the application, it will be possible to save the user's access data for automatic access (Keep me logged in).

When no application is selected, the device screen will remain in the Admin login screen (factory setting).

 **When an application is running, to access the Admin page from the front panel. [For further details see Reboot Buttons section.](#)**

Alternatively, it is possible to access the configuration menu via the web from a PC on the same network.

- **EclerPLEX**

Please remember to assign a user to the graphic panels created in EclerPLEX.

EclerPLEX application on PULSO needs the user credentials for the access to customised panels.

- **UCP**

PULSO is compatible with EclerNet Manager from version v6.07r1 onwards and it will act as a WPNETTOUCH panel. Previous versions will not recognize PULSO devices.

Once this application is selected, a switch will appear to activate the UCP server if required.

- **VIDA**

Please remember to assign a user to the graphic panels created in VIDA or create them as "Public Panels".

VIDA application on PULSO needs the user credentials for the access to customised panels.

 **In the case that several VIDA units coexist in the same network, it will be necessary to replicate user panels and users in all units.**

- **Pilot**

PULSO and Pilot solve the limitation of being able to control only one zone from a single eMCONTROL1 wall-panel.

In addition, the limitation of having a maximum number of 8 eMCONTROL1 panels in a HUB matrix installation is solved.

- **Browser**

This application **allows PULSO to be used with the VEO-XCTRLG2 web GUI** or with web GUIs of **third-party products**.

	
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Type in the address bar **http://** followed by the **IP address** of the web server hosting the graphical user interface to be able to access it. The browser application can only display **one page** as all navigation controls are disabled and **compatibility with all web pages is not guaranteed**.

									
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All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

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