

PX314

AC+
Dimmer
24 x 3600W

MANUAL



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Manufacturer reserves the right to make modifications in order to improve device operation.

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1. GENERAL DESCRIPTION

PX314 AC+ Dimmer 24x 3600 W can be powered by three phases, and has an integrated system fully protecting against the effects of reverse phases connection.

The device allows you to control 24 independent channels with a power of 3.6 kW each. The dimmer enables you to control input signals from 6 different sources simultaneously, including:

- 2 DMX-512 lines,
- 3 Art-Net lines,
- 24 analogue inputs (option available to order).

The device has an integrated merger system with a possibility to select one of 13 priorities. The advanced electronics allows you to address each output channel in any way, to select and edit the driving characteristics (5 factory characteristics, 5 user's characteristics), and to set limits for voltage and output current for each channel individually.

The device is equipped with the bulb heating system (10 levels) and control of the attached fuse and broken circuit / burnt bulb. In addition, the user can define the dimmer response to the lack of the driving signal. In addition to the basic options (ON, OFF, HOLD, SLOW TURN OFF), 64 stages and the program are available to be defined.

The integrated "PLL", "soft-start", "soft-on" and "even-off" systems assure reliable operation in the most extreme conditions.

Direct detection of zero of the network and optical insulation of DMX input guarantee high resistance to interference.

The device is equipped with an electronic measurement of current on each channel, current of the entire dimmer, voltage at individual phases of the power, voltage frequency, and temperature (separately for 2 groups of 12 channels). The dimmer is protected against reverse connection of phases, has thermal protection and temperature control fans inside. Each group (12 circuits) has a circuit breaker.

Each circuit has a 16 A fuse breaker (characteristic C), circuit and overload protection. On request, each output circuit can be equipped with a fuse-breaker.

The dimmer is equipped with a touch screen, 4 keys and a knob with which you can define all the parameters of the device. In addition, there is available an application to Windows, OSX and Linux, which allows you to set all the parameters and monitor the status of multiple PX314 devices connected to one network.

The device is produced in the housing for wall mounting.

2. SAFETY CONDITIONS

PX314 dimmer is a device powered directly from the 230 V mains. Failure to observe safety instructions may result in electric shock and pose a threat to life. Therefore, you should strictly adhere to the rules outlined below:

1. Installation of the device, and in particular, connection of power, should be made by a suitably qualified person, as described in the manual.
2. The device can be connected only to 3- or 5-wire installation (with a separate protective conductor).
3. Protect all cables against mechanical and thermal damage.

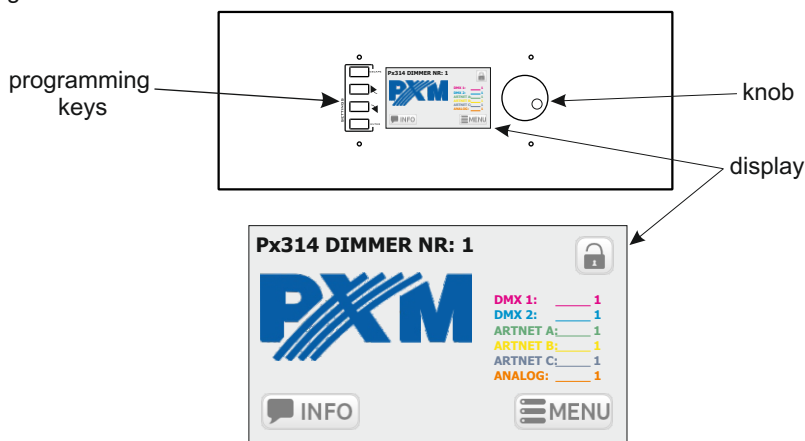
4. In case of failure of any of the cables, it must be replaced with a cable of the same technical parameters.
5. Use only 3-wire cables of not less than 2.5 mm^2 for connecting devices to the dimmer.
6. Each receiver should be powered by a separate cable.
7. After installation, test the effectiveness of resetting all the equipment controlled.
8. All repairs that require the housing to be removed can only be carried out with power disconnected.
9. The dimmer must be strictly protected against contact with water or other liquids.
10. Avoid sudden shocks, particularly dropping.
11. Do not connect dimmer with damaged (dented) housing to the power supply.
12. Do not operate the device in rooms with humidity above 90%.
13. The device must not be used in rooms with a temperature below $+2^\circ\text{C}$ or above $+40^\circ\text{C}$.
14. Clean only with a damp cloth – the dimmer must be at this time completely disconnected from the power supply.

NOTE!!!

1. Improper connection of the protective conductor (of yellow and green colour) creates the risk of electric shock.
2. Improper connection of the neutral wire (of blue colour) will automatically turn off the dimmer and start the buzzer.
3. It is also acceptable to power the dimmer with one or two phases.

3. FRONT PANEL / INTERFACE

The device is equipped with a colour touch display with a resolution of 480x272 px. During operation, it displays basic information and possible warnings and errors. The displays also allows you to set the parameters of the dimmer. You may be asked to give a password to enter the settings menu.



KNOB

It is used to quickly change the numerical values in the text boxes and switch between successive elements on the screen. Pressing the knob is equal to pressing the ENTER key.

KEYS

The four keys on the left side of the screen help navigate the menus.

- ENTER – it activates the selected item. If the selected item is a key – it presses this key, if a list – it expands this list, if a text box – it starts to edit it.
- NEXT, PREV – they are used to switch between successive items on the screen and select values from the list and numeric fields.
- ESC – it allows you to cancel the changes.

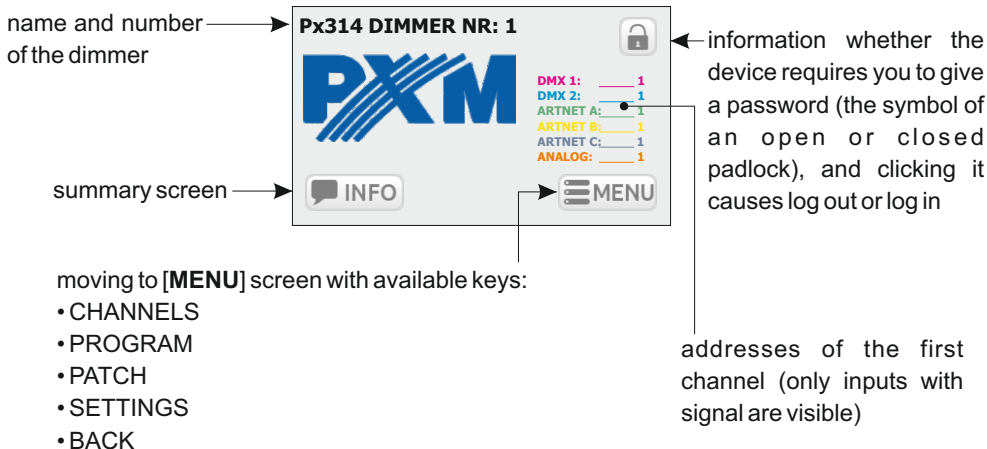
INTERFACE

During the preview of information and setting parameters on the screen, there are 3 types of interactive elements: keys, text boxes and selection lists. Items can be selected directly on the touch screen or by using the arrow keys. NEXT/PREV keys (or knob) are used to select the next/previous item on the screen (item envelope becomes orange), the ENTER key is used to activate the currently selected item (item envelope and background become orange). Activation of the key causes it to be pressed, activation of the text box allows you to enter a new value, activation of the selection list causes it to expand and display available options. When using the touch screen, numeric values in the text boxes are added using the onscreen keyboard, NEXT and PREV keys or the knob.



4. OPERATION

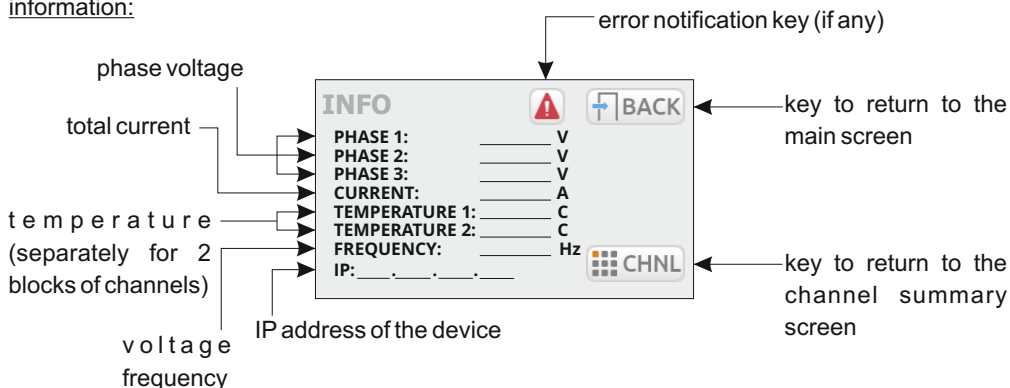
After starting the device, the display shows the start screen, including:



Start screen is visible to every user, without a password.

4.1 Summary screen

Pressing the **[INFO]** key takes you to the summary screen. This screen includes the following information:



Error notification key is displayed on the screen when one of the following errors is detected in the dimmer:

- **DRIVER HIGH TEMPERATURE** - warning about exceeding the maximum temperature set in the FAN menu;
- **PHASE LOSS** - error, no voltage on the phase (contact the service);
- **PHASE ERROR 1** - error, internal error (contact the service);
- **MODULE NOT RESPONDING** - error, no communication with the unit (contact the service);
- **DRIVER TERMISTOR MISSING** - error, thermistor damage (contact the service);
- **DRIVER TERMISTOR SHORTED** - error, thermistor is shorted (contact the service);
- **CHNL OUTPUT SHORTED** - error, channel is shorted (contact the service);
- **CHNL FUSE MISSING** - warning, fuse is not enabled or one supply phase is missing
- **CHNL OVERLOAD** - warning, channel overcurrent;
- **CHNL TRIAC SHORTED** - error, triac is shorted (contact the service);
- **CHNL OPEN CIRCUIT** - warning, open circuit or burnt bulb.

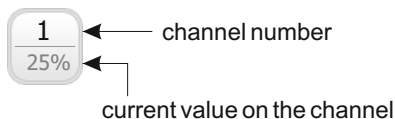
The messages are divided into errors and warnings – errors are shown in red and a warnings in orange.

NOTE: In the case of closing the output circuit, the dimmer automatically disconnects the circuit. In this case, disconnect device from the power supply and check the cause of short circuit.

4.2 Channel summary screen

The channel summary screen **[CHANNELS INFO]** shows keys corresponding to 25 output channels.

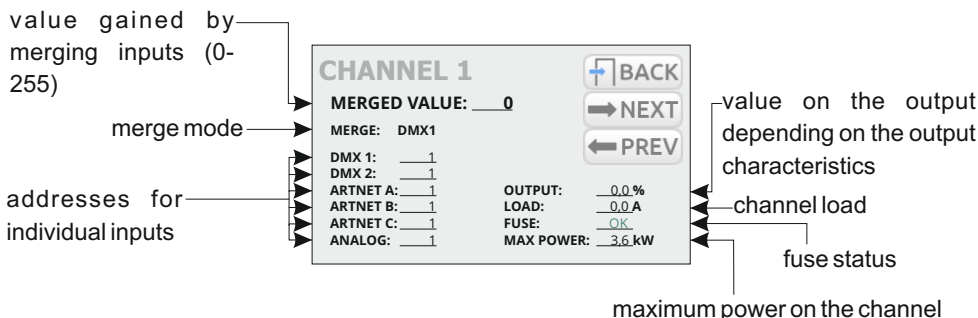
Each key shows:



The colours of captions depend on the source of value on the channel:

- **violet** – DMX 1
- **orange** – Art.-Net 3
- **blue** – DMX 2
- **brown** – analog input
- **green** – Art.-Net 1
- **black** – no signal
- **yellow** – Art.-Net 2

Pressing one of the channel keys takes you to the corresponding channel summary screen. This screen displays the following information:



On this screen, there are also available the **[NEXT]** and **[PREV]** keys used to quickly navigate to the next/previous channel and the **[BACK]** key used to return to the list of channels.

If the dimmer is connected to the application on a PC – all the information is also available on an ongoing basis in the program.

5. PROGRAMMING

5.1 Menu

Pressing the **[MENU]** key on the main screen of the dimmer, takes you to the screen with available keys:



CHANNELS - setting the parameters of output channels



PROGRAM - defining the scenes and program that can be activated in the absence of DMX signal



PATCH - addressing inputs and merge mode for individual inputs



SETTINGS - other settings

5.2 Setting the channel parameters

After selecting **[CHANNELS PARAMETERS]**, you can set the parameters:



SINGLE - separately for individual channel



RANGE - collectively for the channel range

If you select **[RANGE]**, the following fields will be available on the screen:

reduction of output power (range 0-100%)

maximum current on the channel (1-16 A)

input characteristics of the channel

RANGE

POWER

100 %

MAX CURRENT

16 A

CURVE

LINEAR

PREHEAT

OFF

✖ ESC

✓ SAVE

FROM

1

TO

1

range of channels for which the parameters are to be set

lighting the channel – 10 levels of channel lighting to choose from: OFF, LEVEL 1 - LEVEL 9

The user can select the following curves:

- LINEAR** – the value on the output is directly proportional to the input value,
- EXPONENTIAL** – exponential characteristics,
- LOGARITHMIC** – logarithmic characteristics,
- ON/OFF** – two-level characteristics,
- REVERSED** – the value on the output is inversely proportional to the input value,
- USER 1-5** – 5 curves to be defined by the user.

Pressing the **[ESC]** key exits the screen without saving your changes, press the **[SAVE]** key to exit the screen and save your settings for all channels in a given range.

If you select the **[SINGLE]** option, the screen will display the keys for all output channels. Pressing one of the channel keys takes you to the corresponding channel parameter screen:

CHANNEL 1

CURVE

LINEAR

PREHEAT

OFF

POWER

100 %

MAX CURRENT

16 A

✓ SAVE

← PREV

→ NEXT







⏮ BACK

[NEXT] and **[PREV]** keys allow you to quickly switch between successive channels. To save your parameters, press **[SAVE]** before switching to another channel.

5.3 Program

In the [PROGRAMMING] menu, you can program 128 scenes and a program that can be activated in the absence of DMX signal. Scene is a static adjustment of the value at the output channels. Program is a set of successive scenes.

The screen shows the following keys:

-  EDIT SCENE – editing on of 128 scenes
-  COPY SCENE – copying set values between the scenes
-  CAPTURE SCENE – capturing the current scene output status
-  EDIT PROGRAM – defining the order of scenes in the program
-  PLAY – scene or program preview
-  NO SIGNAL – defining the dimmer operation in the absence of DMX signal

5.3.1 Scene edit

Scene edit screen includes:

number of currently edited scene

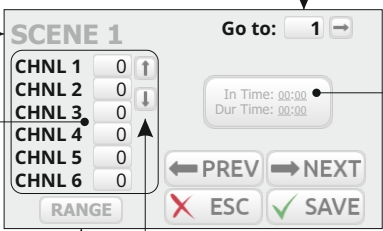
list of output channels together with the values – user can set on the list the values (within the range: 0-255) on individual channels

key to go to the successive numbers of channels

key makes it easy to simultaneously set the same value in the selected range of channels

field that allows you to go to other, selected scene

key to change times – allows you to set the entry time and duration of the scene; scene off time is always equal to 5 seconds



When you select [EDIT SCENE], the application displays the screen for editing scene 1; in addition, scene 1 occurs on the outputs.

[NEXT] and [PREV] keys – allow you to switch between the scenes. Transitions are made in a linear way.

5.3.2 Scene copying

Scene copying screen contains 2 fields: **[FROM]** and **[TO]** which allow you to specify the source scene and the target scene between which the values are to be copied.

5.3.3 Scene capture

Scene capture option allows you to save current values on the output channels to the selected scene.

Scene capture screen includes:

scene number field in which the user can enter the number of scene to which the captured values are to be saved

current values on all channels, which are to be saved

keys to go to the successive numbers of channels

key to change times

[NEXT] / **[PREV]** keys – allow you to switch between the scenes.

5.3.4 Program edit

The program edit screen shows a list of 64 steps and scenes corresponding to these steps.



active, defined step

"inactive" steps

adds the selected scene to the program as the next step

removes the selected step from the program

5.3.5 Playback

The playback screen **[PLAY]** allows you to preview the created scenes and program. On the screen, there are keys to play  and stop  the program and the field to select a scene, as well as play and stop keys for the selected scene. The **[BACK]** key which exits the screen.

5.3.6 No signal

By using the **[NO DMX SIGNAL]** screen, you can program the operation of the device in the absence of DMX signal.

Available options:

- **ON** – all channels will be enabled at 100%;
- **OFF** – all channels will be disabled;
- **SLOW TURN OFF** – there will be a slow blanking of all channels;
- **HOLD** – the last value present before the signal loss will be saved on the channels;
- **SCENE** – the selected scene will be displayed;
- **PROGRAM** – the program will be played.

5.4 Patch

The **[PATCH]** menu allows you to set the merge mode for inputs and DMX address on the various inputs, as well as to determine whether the channel is controlled with double-precision (using two DMX channels).

Settings can be changed separately for the selected channels **[SINGLE]** or in groups for a fixed range of channels **[RANGE]**.

Selecting **[RANGE]** takes you to the screen for group settings. This screen includes the following fields:

RANGE

SOURCE	ADDRESS
DMX 1	1
DMX 2	1
ARTNET A	1
ARTNET B	1
ARTNET C	1
ANALOG	1

MERGE DMX1

DOUBLE PRECISION

FROM 1 TO 24

ESC SAVE

range of channels for which the changes are to be made

selection list for the merge mode

starting address for each type of source (channels are addressed sequentially)

Available values of the merge mode:

- **HIGH** – the highest of values;
- **LAST** – last value;
- **DMX1** – value from the DMX 1 input;
- **DMX2** – value from the DMX 2 input;
- **UNIVERSE 1** – value from the Art-Net 1 input;
- **UNIVERSE 2** – value from the Art-Net 2 input;
- **UNIVERSE 3** – value from the Art-Net 3 input;
- **is DMX1/DMX2** – value from the DMX 1 input, if there is a signal on it, if not – DMX 2 input;
- **is DMX1/DMX2 CAPTURE** – if DMX 1 and DMX 2 are enabled, value from the DMX 1 input is selected. If you disable DMX 1, value from the DMX 2 is selected only when it reaches the DMX 1 input value. This mode prevents abrupt changes in values.

- **is DMX2/DMX1** – value from the DMX 2 input, if there is a signal on it, if not – DMX 1 input;
- **is DMX2/DMX1 CAPTURE** – if DMX 1 and DMX 2 are enabled, value from the DMX 2 input is selected. If you disable DMX 2, value from the DMX 1 is selected only when it reaches the DMX 2 input value.
- **is DMX1/UNVRS 1** – value from the DMX 1 input, if there is a signal on it, if not – UNIVERS 1 input;
- **is DMX1/UNVRS 1 CAPT.** – if DMX 1 and UNIVERS 1 are enabled, value from the DMX 1 input is selected. If you disable DMX 1, value from the UNIVERS 1 is selected only when it reaches the DMX 1 input value.
- **is UNVRS 1/DMX1** – value from the UNIVERS 1 input, if there is a signal on it, if not – DMX 1 input;
- **is UNVRS 1/DMX1 CAPT.** – if DMX 1 and UNIVERS 1 are enabled, value from the UNIVERS 1 input is selected. If you disable UNIVERS 1, value from the DMX 1 is selected only when it reaches the UNIVERS 1 input value.
- **ALWAYS ON** – channel is always enabled.

Selecting **[SINGLE]** allows you to set the same options for individual channels.

5.5 Settings

The **[SETTINGS]** menu includes the following categories:



CURVES – management of characteristics curves



ADMIN – administrator settings



ARTNET – Art-Net settings



FAN – fan settings



LCD – display settings



LAN – network settings

5.5.1 Curves

10 curves are available in the device: 5 preset and 5 user-definable. Preset curves can be previewed and copied. User's curves can be edited.

The **[CURVES]** screen includes 10 keys for all the curves:

- **LINEAR,**
- **REVERSED,**
- **SWITCHED,**
- **LOGARITHMIC,**
- **EXPONENTIAL,**
- **USER 1 - USER 5.**

Clicking on one of the keys takes you to the preview of the curve.

For pre-set curves, **[COPY]** and **[BACK]** keys are displayed next to the preview.

For user's curves, **[EDIT]** and **[BACK]** keys are available.

Pressing the **[COPY]** key displays the copy window, where you can determine to which user's curve, and to what extent, the selected curve will be copied.



Pressing the **[EDIT]** key displays windows with 12 points for which you can enter values. The curve will be drawn between the designated points. The curve can be created from 2-12 points.

NOTE: The first point of the defined curve must always have the x coordinate equal to 0.

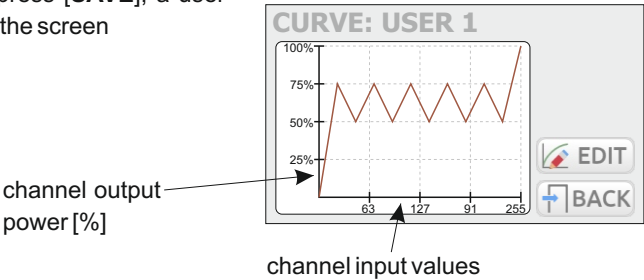
Sample configuration of the user's curve:

1. From the **[CURVES]** menu, select the user's curve key, for example, **[USER 1]**
2. Press **[EDIT]**, the application displays a table of 12 coordinates of the points between which the new curve is drawn
3. Complete the table

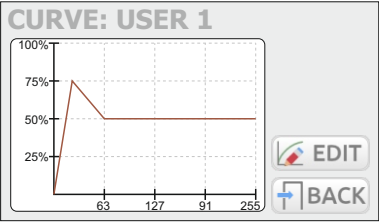
x	y	x	y
0	0	139	50
23	75	162	75
46	50	185	50
69	75	208	75
92	50	231	50
115	75	255	100

 **ESC**  **SAVE**

4. To save the settings, press **[SAVE]**, a user-defined curve appears on the screen



Only the points for which the values on the x-axis are given incrementally are taken into account, e.g.:



entering a value of less than 64 causes that only the first three points are taken into account

x	y	x	y
0	0	139	50
23	75	162	75
63	50	185	50
0	75	208	75
92	50	231	50
115	75	255	100

ESC SAVE

5.5.2 Admin

Category [ADMIN] contains the administrator settings:

ADMIN DEFAULT CONFIG

DEVICE NR: 1

PASSWORD

ADMIN 1111

EXPERT 2222

USER 3333

BOOT ESC SAVE

restoring the factory default configuration

setting the device number




by selecting this option, you can set the access password

administrator, technician and user password (a number in the range 0-9999)

device reset, the device stops in the bootloader and it is possible to upload new software
To go to the program, click on any key.

NOTE: If an incorrect administrator password is entered ten times (in each case, the message "NO ACCESS RIGHTS TO" is displayed), the device will be blocked and you will need to contact customer service.

Switching between user accounts:

1. Click the button  (located on the start screen of the panel, it will cause the user logout)
2. Click again in the padlock key to display the login screen
3. Select  the account that you want to log on and enter your password
4. Confirm 

The device has 3 users whose access levels are shown in the table below:

	No logging	User	Technician	Administrator
Start screen	✓	✓	✓	✓
Summary screen	X	✓	✓	✓
Channel preview screen	X	✓	✓	✓
Scene / Program running	X	X	✓	✓
Channel setting	X	X	✓	✓
Program / Scene edit	X	X	✓	✓
Channel patch	X	X	✓	✓
Curve, fan, display setting	X	X	✓	✓
Ethernet, Art-Net settings	X	X	X	✓
User and password management	X	X	X	✓

5.5.3 Art-Net

In the [ARTNET] menu, there are address settings [SUBNET] and [PORT] which allow you to select Univers for each of the three Art-Net input ports.

5.5.4 Fan

Thermal protection of the dimmer

The device is equipped with a built-in automatic power reduction system.

Dimmer monitors the temperature of channel groups; if the temperature of 65 °C is exceeded, the output power is automatically reduced. This reduction is linear over the range 65-80 °C, i.e., if the temperature of 80 °C is exceeded, the device will disable the channels.

The following settings are available in the fan menu:

FAN

MODE PROPORTIONAL

MAX 60 C

MIN 20 C

✖ ESC ✔ SAVE

temperature at which the fan turns on

temperature at which the fan operates with maximum power

information on the operation of fans; red – fans are off, green – fans are on

fan operation modes:

- PROPORTIONAL – the air flow increases linearly with the increasing temperature (between the minimum and maximum temperature)
- HYSTERESIS – the fan turns on and operates at 100% when the specified maximum temperature is exceeded, and turns off below the minimum temperature
- ON – fan operates with maximum power

NOTE: The device has a safety feature that turns the fan on also when the load current of any output exceeds 5 A, or the total current exceeds 20 A.

5.5.5 LCD

The display menu includes the screen saver settings. You can determine whether the screen saver is to be run, and if so, after what idle time and which of the screens is to be displayed after the "awakening".

LCD

START SCREEN PROGRAMMING

AFTER 5

SCREENSAVER ☐

✖ ESC ✔ SAVE

screen saver activation

time after which the screen saver is activated (1-100 minutes)

list of available start screens displayed after device awakening:

- INFO
- LOGIN
- MENU
- PROGRAMMING
- SETTINGS
- START

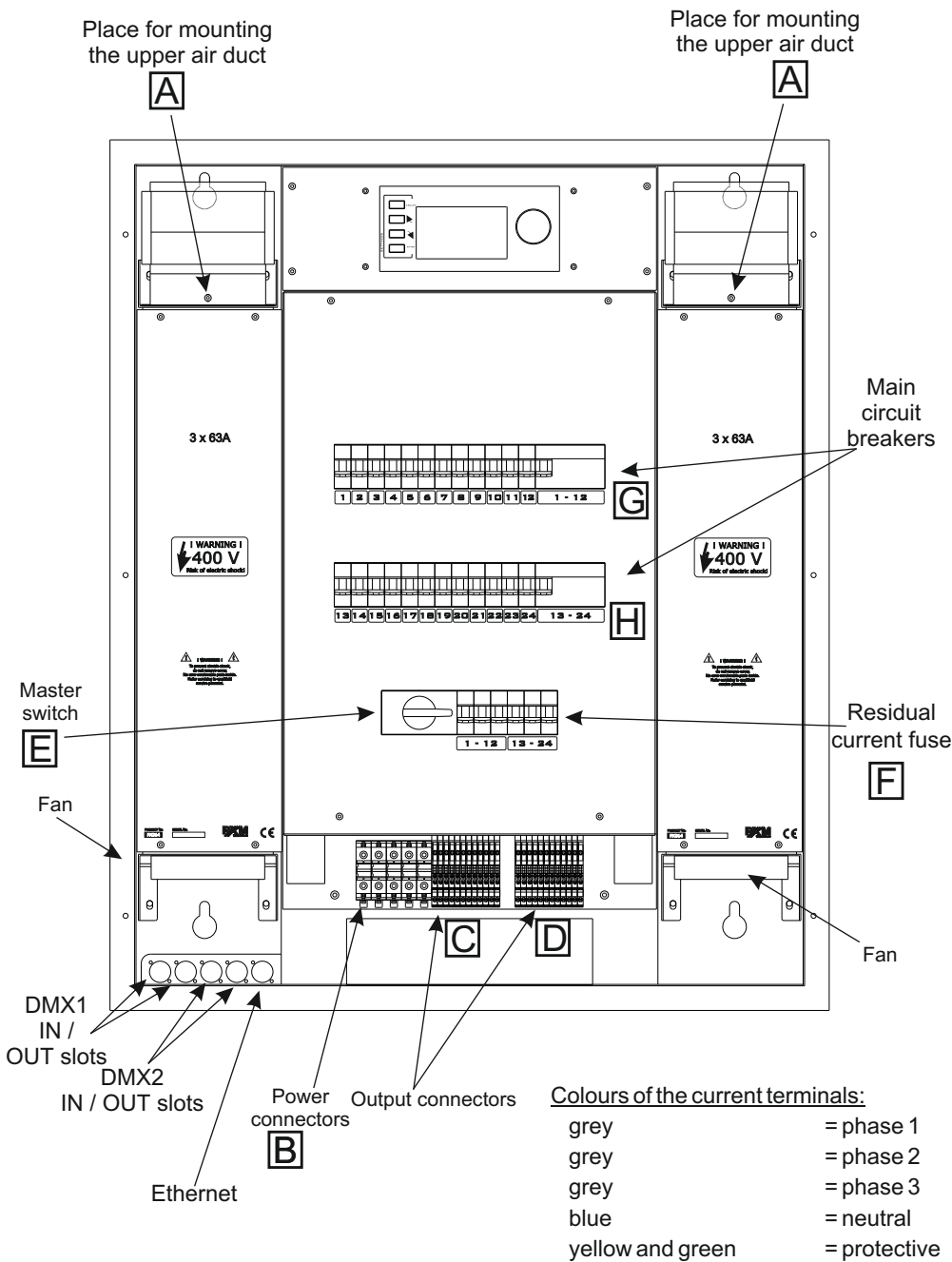
5.5.6 LAN

In the [LAN] menu, local network settings are available:

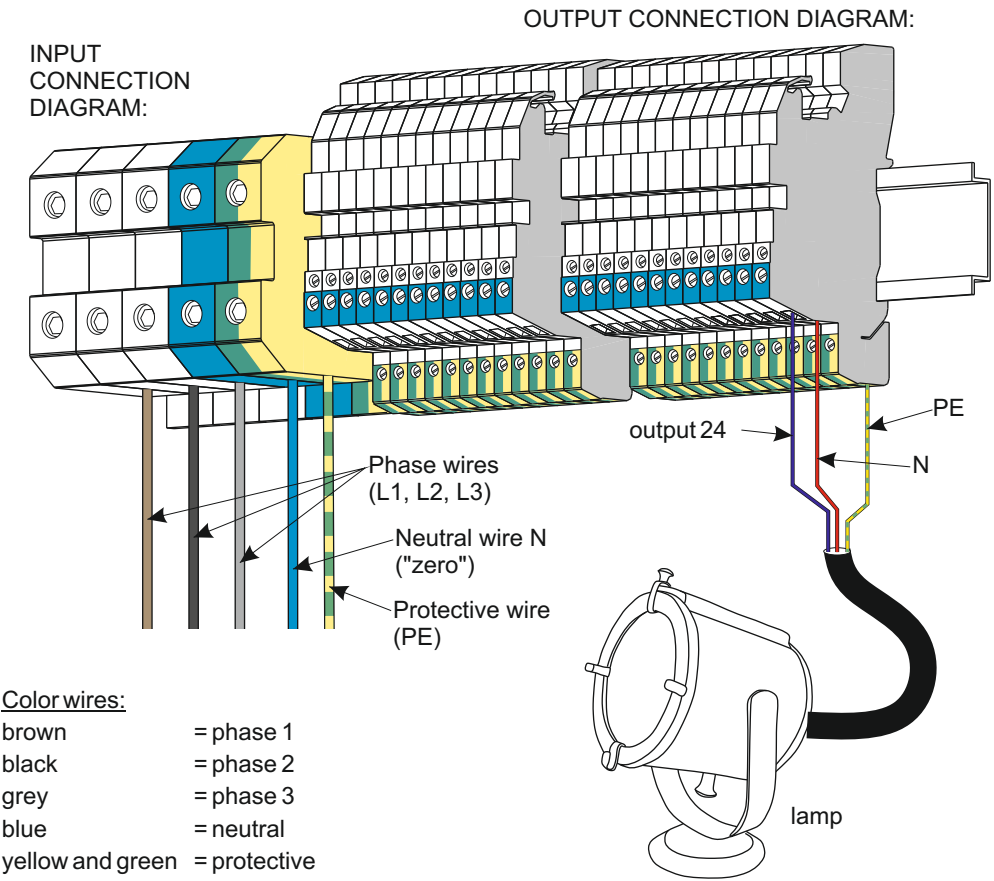
- IP
- MASK
- GATEWAY

6. INSTALLATION AND CONNECTION OF THE DIMMER

6.1 Dimmer view after opening the door



6.2 Connection scheme



The smallest cross section of an individual input cable is 25 mm².

The smallest cross section of an individual output cable is 3x2.5 mm².

6.3 Installation steps

All electrical connections must be performed only by adequately qualified personnel!!!

1. Install anchor bolts in the wall according to the dimensions given on page 20. The size and type of anchor bolts depend on the "quality" of the wall. They must be chosen taking into account the weight of the dimmer, so that they would provide a safe and permanent fixing thereof. Do not use anchor bolts with a diameter of less than 12 mm.
2. Remove the screws in the places marked with the letter "A" in the figure on page 17.
3. Pull out two upper ventilation ducts.
4. Attach the dimmer to the wall.
5. Insert the ventilation ducts.
6. Tighten screws securing the ducts – "A".
7. Connect the power supply to the power connectors "B".

NOTE:

Pay special attention to the correct connection of the protective conductor.

8. Connect the receiver to the input connectors.

NOTE:

Phase and zero conductors of one receiver MUST be connected to the same group of terminals (marked with letters "C" or "D" in the figure on page 17). Do not connect the phase conductor of one receiver to the group "C", and zero conductor to the group "D" and vice versa..

9. Switch off all fuses and circuit breakers.
10. Turn on the external power switch.
11. Turn on the master switch "E", and the main circuit breakers "F". The control panel should turn on.

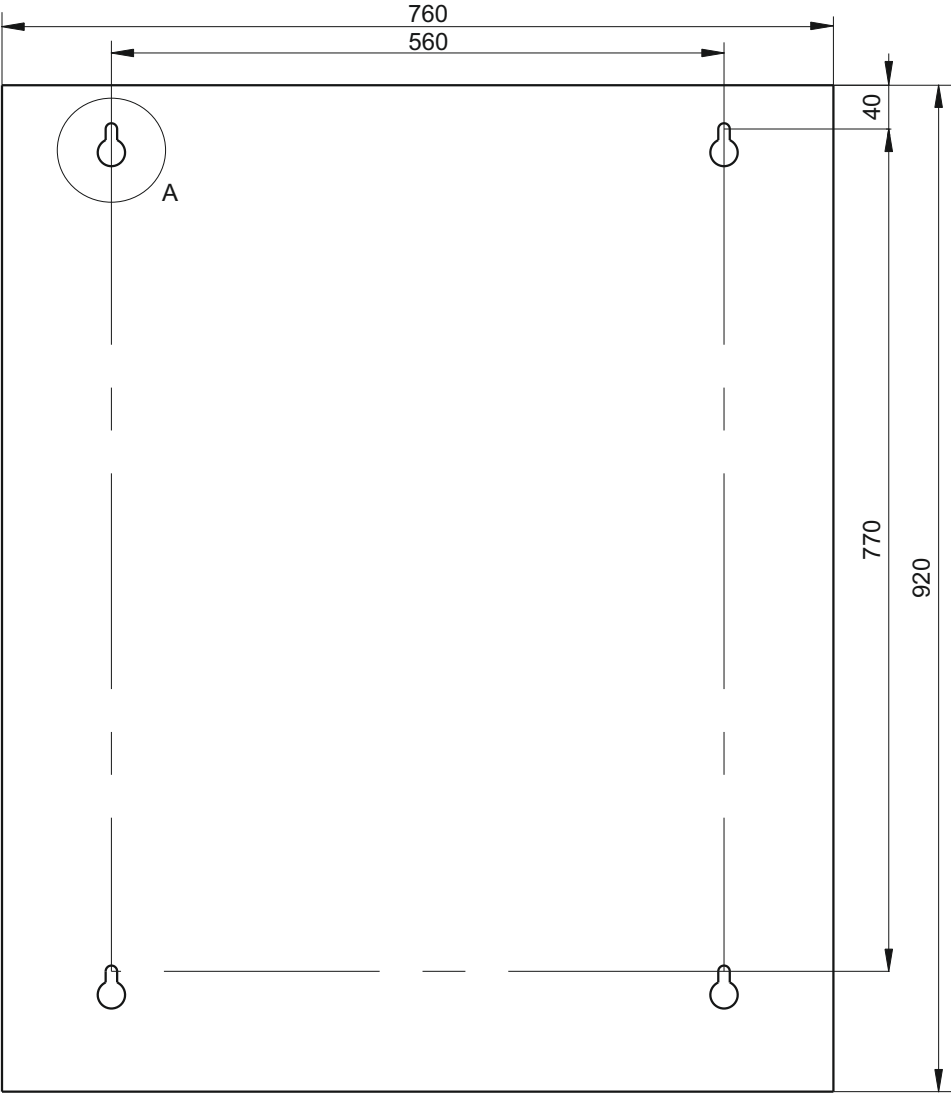
NOTE:

If the control panel does not turn on and an acoustic alarm is started, immediately turn off the power supply and check if the power cables are properly connected. An acoustic alarm informs about improper connection of phases.

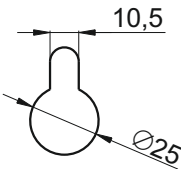
Turn on the two circuit breakers "G" and "H".

12. You can turn on the fuses for the output channels and check the operation of the dimmer.
13. Connect DMX cables.
14. Program the dimmer in accordance with the description in this manual.

6.4 External dimensions and arrangement of mounting holes

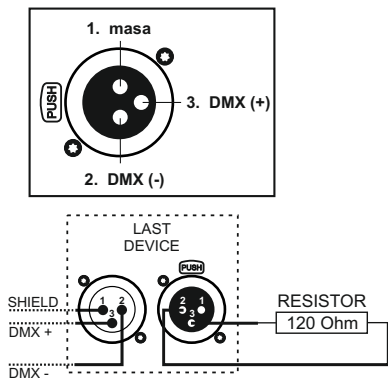


DETAIL A:



dimensions are given in millimetres

7. DMX SIGNAL CONNECTION



1. The recommended cable for the connection is RS485 (two wires in a shield).
2. Devices must always be connected in series.
3. To split the DMX line, use the DMX SPLITTER (PX094).
4. In the case of a larger number of devices or long distances use the DMX REPEATER (PX097). It is a DMX signal amplifier.
5. It is necessary to install a terminator, i.e. 120 Ohm resistor, in the last device.

8. TECHNICAL DATA

- DMX lines:	2
- Art-Net Unifers:	3
- optically insulated DMX line:	yes
- circuit break detection:	yes
- overvoltage protection:	yes
- output carrying capacity:	24 x 3600 W continuous resistive load 24 x 2400 VA continuous inductive load (conventional and neon transformers)
- output protection:	full electronic protection + automatic 16 A fuses
- built-in master switch	yes
- fans:	electronic control
- input slots:	35 mm ² terminals
- output slots:	4 mm ² terminals
- power supply:	3 x 230 V / 40 - 70 Hz
- current consumption:	3 x 128 A (at full load)
- weight:	70 kg
- dimensions:	Width: 760 mm Height: 920 mm Depth: 172 mm





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DECLARATION OF CONFORMITY

according to guide lines 2004/108/WE and 2006/95/WE

Name of producer: PXM Marek Żupnik sp. k.

Manufacturer's address: ul. Przemysłowa 12
30-701 Kraków

We declare that our product:

Product name: **AC+ Dimmer 24 x 3600 W**

Product code: **PX314**

complies with the following standards:

LVD: **PN-EN 60065:2004**

EMC: **PN-EN 61000-4-2:2011**
PN-EN 61000-6-1:2008
PN-EN 61000-6-3:2008

Additional information:

1. PE terminal of the dimmer must be connected to a working protection system equipped with a differential switch.
2. The dimmer may only be installed in closed electrical switching stations.

Kraków, 07.09.2015



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mgr inż. Marek Żupnik.