PX760

Gate 2

DMX RDM PoE

User manual

Table of Contents

1   Description

Gate 2 DMX RDM PoE device was created for 2-way converting Art-Net signal into two DMX512 and DMX512 ports on Art-Net.

The gate is powered by PoE (Power over Ethernet) in the IEEE 802.3af standard, which allows to power the device via twisted-pair cable without using an external power supply while transmitting data, it is optionally powered by 48V DC. The device is protected by a metal casing that protects it against mechanical damage.

The gate has two modes of merging signals from two sources: HTP and LTP. The protocol version is Art-Net4 (compatible with Art-Net 1 – 4).

The device is equipped with two DMX / RDM ports working in IN / OUT modes and one Ethernet port operating in the 10 / 100BaseTX standard. DMX512 ports are XLR connectors that have optical and galvanic isolation and are resistant to mechanical damage.

On the front panel there are four LEDs installed, two two-color ones responsible for data transfer on DMX / RDM ports and two one-color ones informing about the status of the Art-Net network connection.

The gate PX760 has a display and four buttons that allows to change the configuration: Art-Net, Ethernet and DMX settings (such as: Brake, MAB, MBF and the number of DMX channels transmitted).

2   Safety conditions

PX760 Gate 2 DMX RDM PoE is a device powered with safe voltage 48V DC, however, during its installation and use the following rules must be strictly observed:

1. The device may only be connected to 48V DC (stabilized voltage) with current-carrying capacity compatible with technical data.
2. All the conductors should be protected against mechanical and thermal damage.
3. In the event of damaging any conductor, it should be replaced with a conductor of the same technical data and attestations.
4. Connection of DMX signal can only be made with shielded conductor.
5. All repairs and connections of outputs or DMX signal can only be made with cut off power supply.
6. PX760 should be strictly protected against contact with water and other liquids.
7. All sudden shocks, particularly dropping, should be avoided.
8. The device cannot be turned on in places with humidity exceeding 90%.
9. The device cannot be used in places with temperature lower than 2°C or higher than 40°C.
10. Clean with damp duster only.

3   Connectors and control elements

LED indicators   display   programming buttons

DMX512 ports

48V DC power socket

Ethernet Neutrik
etherCON port
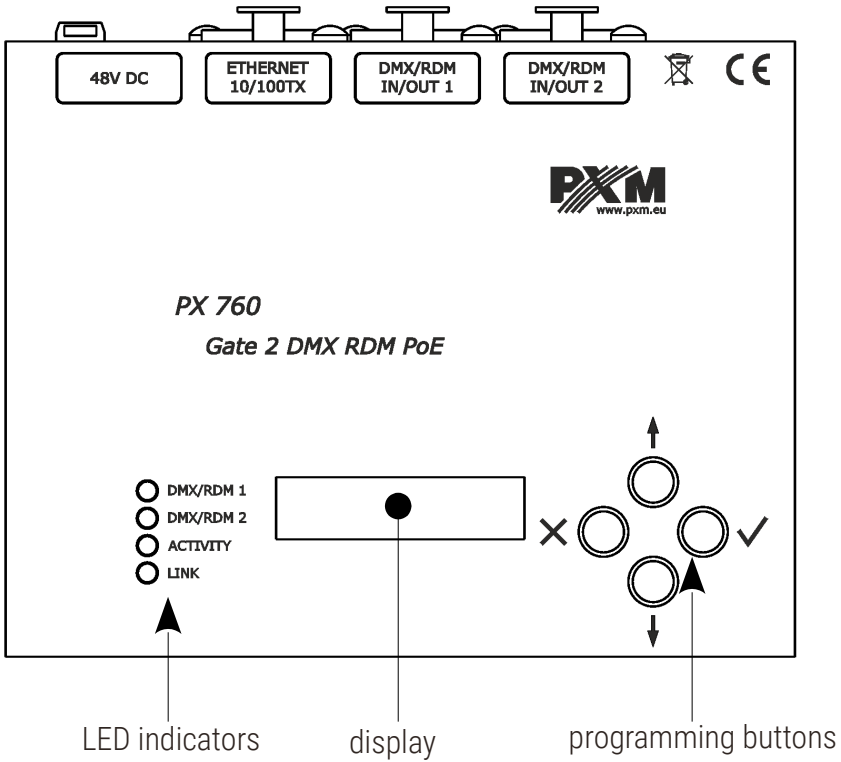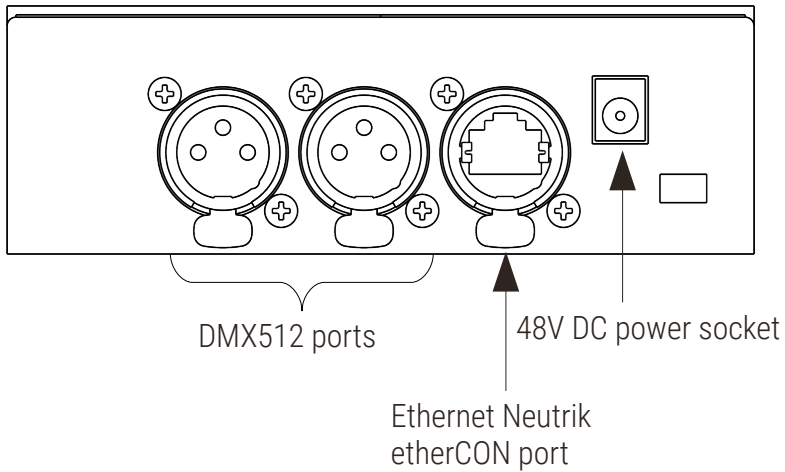
4   Power supply

The Gate 2 DMX RDM PoE device can be powered from two power sources. The first is PoE (Power over Ethernet) in the IEEE 802.3af standard using a twisted-pair cable, without using a power supply, the second is a standard 48V DC power supply from an external power supply (no power supply included). Power supply using twisted-pair cable is possible with simultaneous data transfer.

The most important features of PoE:

- power supply and data transmission through one cable reduces installation costs
- range up to 100m with the use of appropriate cabling
- high security due to low voltage transmission
- easy installation

5 Programming the device

5.1 Button features

✕ (escape) - allows you to exit the parameter being programmed without saving any changes or to move to a higher menu level

↓ (next) - moves you back through the menu or decreases values being set

↑ (previous) - moves you forward through the menu or increases values being set

✓ (enter) - allows you to enter the programming mode and confirm the values set

Where a particular parameter is editable, in the bottom right-hand corner the edit symbol ┊┊, and pressing ✓ allows you to proceed to edit the first field.

A field that is editable is shown within square brackets […], and the ↓ / ↑ button allows you to change the value of such a field. If you press ✓ you will be taken to another field or the value will be saved and you will exit the edit mode for a give parameter.

The icon -> allows you to go deeper into the command tree.

5.2   Description of information parameters

The PX760 provides you with the following device information, such as:

- gate model and current IP address (if an address is provided by DHCP, an asterisk * is added)
- gate serial number and version number of the software installed
- individual MAC address of the device

```
PX760 G2 DMX RDM   ENTER
2.137.176.112
                              6 x NEXT

                     S/N: 1960031
                     VER: 01.05
                              NEXT

                     MAC address:
                     --70B3D6EFB1C3--
```
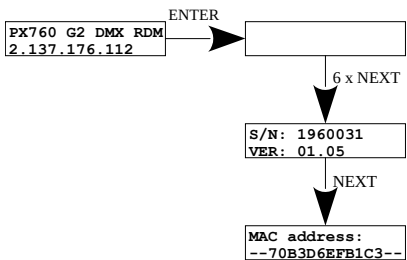
5.3   Network settings

In the [Network config.] menu of the device you can change the gate static IP address [IP address], static sub-net mask [Subnet mask], default static gate [Gateway address], turn on [On] or turn off [Off] the DHCP protocol [DHCP], UDP port [UDP port]. The default port for the Art-Net protocol is port 0x1936 (6454 decimal).

If DHCP is *turned off*, the gate operates in a static configuration (IP, SUBNET MASK, GATEWAY). If DHCP is *turned on*, the gate will start up using static settings, but will attempt to acquire new network configuration from the DHCP server.

```
PX760 G2 DMX RDM    ENTER
2.137.176.112    ───────►  ┌──────────────┐
                           └──────────────┘
                                  │ 2 x NEXT
                                  ▼
                    Network config.   ENTER   IP address      ENTER   IP address
                              ->  ───────►  2.137.176.112 ▥ ───────► [2].137.176.112
                                                  │ NEXT
                                                  ▼
                                           Subnet mask      ENTER   Subnet mask
                                           255.0.0.0     ▥ ───────► [255].0.0.0
                                                  │ NEXT
                                                  ▼
                                           Gateway address  ENTER   Gateway address
                                           2.0.0.1       ▥ ───────► [2].0.0.1
                                                  │ NEXT
                                                  ▼
                                           DHCP             ENTER   DHCP
                                           Off           ▥ ───────► [Off]
                                                  │                      │ NEXT
                                                  │                      ▼
                                                  │                   DHCP
                                                  │                   [On]
                                                  │ NEXT
                                                  ▼
                                           UDP port         ENTER   UDP port
                                           6454 0x1936   ▥ ───────► [6454 0x1936]
```
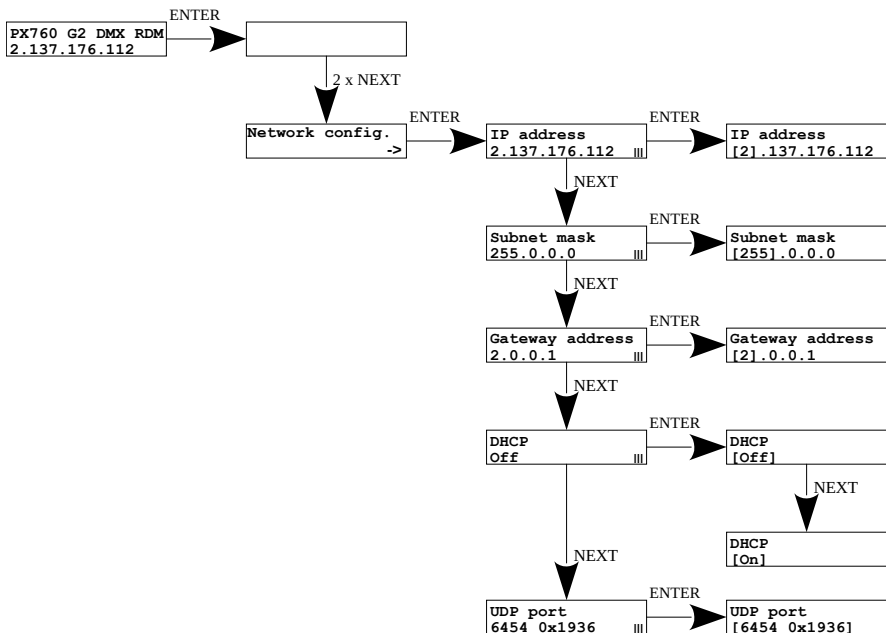
5.4   DMX IN / OUT port settings

The gate can work in two configurations of signal conversion:
Art-Net on DMX512 and DMX512 on Art-Net. To do this, the DMX 1 or 2 ports
must be set accordingly. The options are [in] and [out]. After selecting [out] the
signal is converted from the Art-Net network to the DMX output, analogically
after selecting the [in] option, the signal from the DMX input is converted to
Art-Net signal with the signal connection set (HTP / LTP) [Merge mode].
For each port, the settings can be changed in the Art-Net network
configuration [ART-NET config.] in the [Port n] menu option in the [Direction]
option. Information about the status of ports is available from the main menu.

```
PX760 G2 DMX RDM    ENTER
2.137.176.112    ───────►  ┌──────────────┐
                           └──────────────┘
                                  │ NEXT
                                  ▼
                    Directions       ENTER   Port 1: out
                    view        ->  ───────► Port 2: in
```
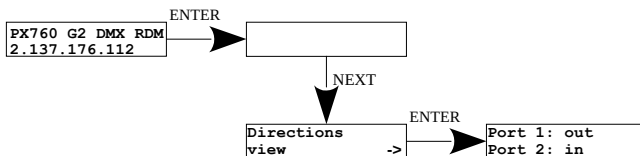
5.5 Art-Net configuration

Below is a diagram showing the [ART-NET config.] menu and a description of individual parameters that can be changed depending on the user's needs.

```
                          DMX parameters  →   Break time        ENTER
                                      →        176us       ‖‖
                                                              NEXT
  Net switch     ENTER    Net switch                              Break time
  0 0x00    ‖‖      →     [0 0x00]                                 [176us]
       NEXT                                                               ENTER
  Subet switch   ENTER    Subet switch            MAB time
  0 0x0     ‖‖      →     [0 0x0]                  12us      ‖‖
       NEXT                                              NEXT
  ART-NET timeout ENTER   Stop DMX signal  ENTER                  MAB time
            →       →     Off          ‖‖                          [12us]
                                                                          ENTER
                          Stop DMX signal          MBF time
                    →     [Off]                     0us       ‖‖
                                 NEXT
                          Stop DMX signal                         MBF time
            NEXT          [On]           NEXT                      [0us]
  Timeout value  ENTER              Output channels  ENTER
  255s      ‖‖                      Auto       ‖‖
                          Timeout value            Output channels
                    →     [255s]                   [Auto]
                                 NEXT                      NEXT
                          Timeout value            Output channels
                          [0s]                     [512]
                                                          NEXT
                                                   Output channels
                                                   [0]
```

Parameters:

[Port 1 – 2] – individual settings of Art-Net ports

[Universe] – the universe number on which a given port runs. The selectable
range is 0 – 32767. The number is displayed in two formats: decimal
and hexadecimal. Hexadecimal notation allows you to easily differentiate
universe components, for example: **0xNNSU**, where:

- **NN:** (Net switch) network number in the Art-Net protocol
  (range 0 – 127 dec, 0x0 – 0x7f hex)

- **S:** (Sub-Net switch) sub-net number in the Art-Net protocol (range 0 – 15 dec, 0x0 – 0xf hex)
- U: Universe switch

Using **[Universe]** you can change all 3 universe number components (Net switch, Sub-Net switch and Universe switch). There is a possibility of quick preview from the main menu of Universes assigned to a given port, the diagram below:

```
                          ENTER                        ENTER
 ┌──────────────────┐            ┌──────────────────┐        ┌──────────────────┐
 │PX760 G2 DMX RDM  │  ────▶     │Universes         │  ────▶ │Port 1:      1    │
 │2.137.176.112     │            │view          ->  │        │Port 2:      2    │
 └──────────────────┘            └──────────────────┘        └──────────────────┘
```

NOTE! A change of a port universe number that entails changing the components Net or Sub-Net will automatically result in a change of the universe of the other ports. This is due to specific nature of the Art-Net protocol addressing, where the gate has a common value for the fields Net and Sub-Net for all the four ports.

[Universe switch] – universe number in the Art-Net protocol (range 0 – 15 dec, 0x0 – 0xf hex). Individual setting of a Universe switch value for a given port. It is a component of the entire Universe number for the port.
[Direction] – setting the direction of signal conversion. Available Art-Net on DMX or DMX on Art-Net.
[Merge mode] – port merging mode setting. Available values of **LTP** (Latest Takes Precedence) and **HTP** (Highest Takes Precedence).
[RDM] – RDM protocol configuration for a given port. You can turn on / off support for RDM commands and turn on / off continuous search of devices

with RDM protocol support **[Auto discovery].**

The device automatically searches when the device is started up.

[DMX Parameters] – configuration of DMX parameters for a given port, times:

- **[Break time]** – duration of a low state along the line at the beginning of DMX packet transmission (range 176µs – 352µs)
- **[MAB time]** – (Mark After Break) – MAB length – interval after the break that is present in each packet according to standard DMX512 (range 12µs – 88µs)
- **[MBF time]** – (Mark Between Frames) – interval between DMX512 frames (channels). MBFs separate stop bits of one channel from the start bits of another channel (range 0µs – 76µs).

[Output channels] – defines the number of channels sent out through a given port

Settings:

> **[Auto]:** the number of channels in a port is equal to the number of channels received by the Art-Net protocol. You can force transmission of the selected number of channels within the range: 0 – 512

[Net switch] – setting a network value in the Art-Net protocol. It is a common setting for all the ports. The range is 0 – 127 (0x00 – 0x7f)

[Subnet switch] – setting a sub-network value in the Art-Net protocol. It is a common setting for all the ports. The range is 0 – 15 (0x0 – 0xf)

[Stop DMX signal]

- **[On]:** turns off DMX transmission if Art-Net signal is lost
- **[OFF]:** the ports continue to transmit the last values

[Timeout value] – a value in seconds after which transmission through a DMX port is stopped following Art-Net signal loss

5.6   Art-Net configuration in mode DMX → Art-Net

In the PX760 gate in the mode of converting the signal from DMX512 to Art-Net after the change of **[Direction]** in the chosen port on DMX → Art-Net, the configuration of **[RDM]** and **[DMX parameters]** disappears, and the **[Transmission]** parameter appears in their place, in which options are available:

- **[Unicast]** – transmission, in which exactly one packet is sent to exactly one recipient – there is only one sender and only one recipient. After selecting this option, the recipient's IP address will appear on the screen.
- **[Broadcast]** – transmission mode consisting in sending by one port of packets that should be received by all other ports connected to a given network – one sender and many recipients
- **[Auto]** – the device sends packets only to "interested" devices with given packets. Based on the ArtPoll query and the obtained ArtPollReply response from another device, the PX760 creates an IP list to send packets.

```
PX760 G2 DMX RDM    ENTER
2.137.176.112    ━━━▶  ┌──────────────┐
                      └──────────────┘
                           │ 3 x NEXT
                           ▼
┌──────────────┐  ENTER  ┌──────────────┐  ENTER  ┌──────────────┐  ENTER  ┌──────────────┐
│ART-NET config.│ ━━━▶   │Port 1        │ ━━━▶   │Universe      │ ━━━▶   │Universe      │
│            ->│        │0 0x0000   -> │        │0 0x0000    ⦀│        │[0 0x0000]    │
└──────────────┘        └──────────────┘        └──────────────┘        └──────────────┘
                                                      │ NEXT
                                                      ▼              ENTER
                                                ┌──────────────┐  ━━━▶  ┌──────────────┐
                                                │Universe switch│       │Universe switch│
                                                │0 0x0      ⦀ │       │[0 0x0]       │
                                                └──────────────┘        └──────────────┘
                                                      │ NEXT
                                                      ▼              ENTER
                                                ┌──────────────┐  ━━━▶  ┌──────────────┐
                                                │Direction (in)│        │Direction (in)│
                                                │DMX -> ArtNet ⦀│       │[DMX -> ArtNet]│
                                                └──────────────┘        └──────────────┘
                                                                              │ NEXT
                                                                              ▼
                                                                        ┌──────────────┐
                                                                        │Direction (out)│
                                                                        │[ArtNet -> DMX]│
                                                                        └──────────────┘
                                                      │ NEXT
                                                      ▼              ENTER
                                                ┌──────────────┐  ━━━▶  ┌──────────────┐
                                                │Merge mode    │        │Merge mode    │
                                                │LTP        ⦀ │        │[LTP]         │
                                                └──────────────┘        └──────────────┘
                                                                              │ NEXT
                                                                              ▼
                                                                        ┌──────────────┐
                                                                        │Merge mode    │
                                                                        │[HTP]         │
                                                                        └──────────────┘
                                                      │ NEXT
     ┌ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┐
     │                                          ▼              ENTER        │
     │                                    ┌──────────────┐  ━━━▶  ┌──────────────┐ │
     │                                    │Transmission  │        │Transmission  │ │
     │                                    │Auto       ⦀ │        │[Auto]        │ │
     │                                    └──────────────┘        └──────────────┘ │
     │                                                                  │ NEXT     │
     │                                          ENTER                   ▼          │
     │                                    ┌──────────────┐  ◀━━━  ┌──────────────┐ │
     │                                    │Unicast IP addr.│       │Transmission  │ │
     │                                    │2.0.0.1    ⦀ │        │[Unicast]     │ │
     │                                    └──────────────┘        └──────────────┘ │
     │                                                                  │ NEXT     │
     │                                                                  ▼          │
     │                                                            ┌──────────────┐ │
     │                                                            │Transmission  │ │
     │                                                            │[Broadcast]   │ │
     │                                                            └──────────────┘ │
     └ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
```
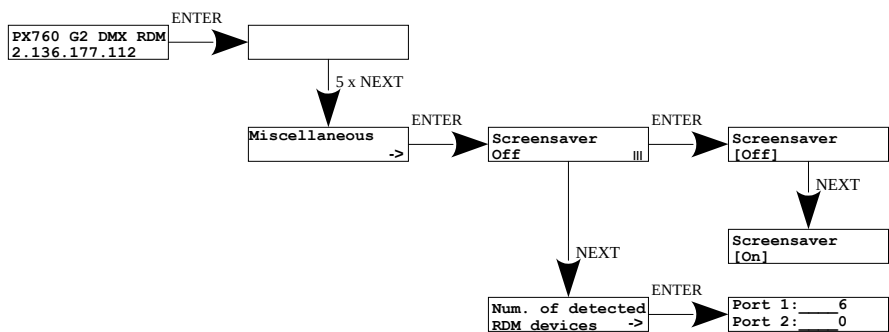
5.7   Presets menu

In the gate are predefined 2 standard sets of factory settings: **2.x.x.x** and

10.x.x.x, which additionally have option of changing global direction.

```
PX760 G2 DMX RDM    ENTER
2.137.176.112    ━━━▶  ┌──────────────┐
                      └──────────────┘
                           │ 4 x NEXT
                           ▼
┌──────────────┐ ENTER  ┌──────────────┐ ENTER  ┌──────────────┐ ENTER  ┌──────────────┐
│Presets       │ ━━━▶  │Def 1 (2.x.x.x)│ ━━━▶  │Def 1 (2.x.x.x)│ ━━━▶  │Def 1 (2.x.x.x)│
│           -> │       │           ⦀ │       │ArtNet -> DMX │       │Load this preset│
└──────────────┘       └──────────────┘       └──────────────┘       └──────────────┘
                             │                       │ NEXT
                             │                       ▼
                             │                 ┌──────────────┐
                             │                 │Def 1 (2.x.x.x)│
                             │                 │DMX -> ArtNet │
                             │ NEXT            └──────────────┘
                             ▼
                       ┌──────────────┐ ENTER  ┌──────────────┐ ENTER  ┌──────────────┐
                       │Def 2 (10.x.x.x)│ ━━━▶ │Def 2 (10.x.x.x)│ ━━━▶ │Def 2 (10.x.x.x)│
                       │           ⦀ │       │ArtNet -> DMX │       │Load this preset│
                       └──────────────┘       └──────────────┘       └──────────────┘
                                                     │ NEXT
                                                     ▼
                                               ┌──────────────┐
                                               │Def 2 (10.x.x.x)│
                                               │DMX -> ArtNet │
                                               └──────────────┘
```
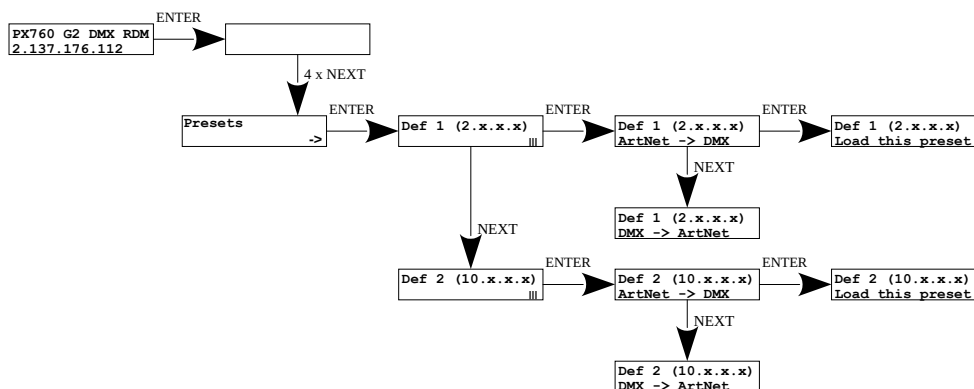
5.8   Settings for the other parameters

The miscellaneous sub-menu [Miscellaneous] allows you to turn on [On] or off [Off] the screen saver [Screensaver]. After 15 seconds the display and the all the indicator LEDs will be turned off. The device will continue to operate, without any interruption of the other parameters. To restore the backlight, press any key.
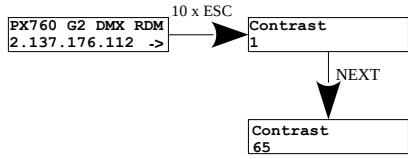
At the level of this menu, it is also possible to check the number of detected devices supporting the RDM protocol on a given DMX port [Num. of detected RDM devices] (the diagram shows 6 detected devices connected to the first DMX port).

```
ENTER
PX760 G2 DMX RDM  ┌──────────────┐
2.136.177.112     └──────────────┘
                       │ 5 x NEXT
                       ▼
Miscellaneous     ENTER    Screensaver      ENTER    Screensaver
            ->             Off         |||            [Off]
                                                           │ NEXT
                                                           ▼
                                                      Screensaver
                                   │ NEXT              [On]
                                   ▼
                          Num. of detected   ENTER   Port 1:___  6
                          RDM devices  ->            Port 2:___  0
```

5.9 Setting the display contrast

If the device has a problem with the readability of messages displayed on the screen, it is possible to change its settings. To do this, press the ~10x *Esc* button. The contrast can be set in range from 1 to 64. If the screen is illegible and only "▨" characters are visible or the screen is completely white, after pressing the ~10x *Esc* button, the device will signal being in the [Contrast] menu by flashing the DMX signal diodes alternately in blue and orange.

With the *Next* or *Previous* button, the appropriate value should be search blindly (it is recommended to press *Next* button to find the value in which the screen becomes readable, and then use the *Next* and *Previous* keys to adjust the value to suit your needs). To exit the [Contrast] menu, press the *Enter* key and accept the selected value.

```
                       10 x ESC
PX760 G2 DMX RDM              Contrast
2.137.176.112 ->             1

                                    NEXT

                             Contrast
                             65
```

6   Information communicated by LED indicators

The indicators diodes on the front panel of the gate provide information on the status of the unit: the two upper LEDs are bi-color ones (blue – orange) and communicate the status of DMX-RDM. Each diode is assigned to one of the two DMX ports.

Action	Function
blinking blue	DMX transmission through the port concerned
blinking blue at a faster rate	transmission using merging (i.e. output data are a result of combining data from two Art-Net sources)
blinking in orange	only RDM packets transmission through a given port
blinking orange at a faster rate	searching for devices via RDM (if [Auto discovery] option is enabled, there is a single flash every 10s)
blinking in blue and orange alternately	DMX and RDM transmission on a given port
blinking in blue and orange alternately at a faster rate on both DMX diodes	The device informs about being on the [Contrast] menu

The above information refers to the so-called normal operating mode.

Additional information communicated by the LED indicators:

- if the screen saver mode is enabled or a "Art-Net Mute Indicators" command has been received, all the diodes **go out**
- if the gate receives an "Art-Net Indicate" command, all the diodes start **blinking**
- if Art-Net packets stop being received by a given port, then, depending on the Art-Net Timeout option:
  - Timeout **[Stop DMX signal]**:
    - if **[Stop DMX signal]** is off **[Off]** the port will continue to send the last values and the diode will continue to **blink in blue**
    - if **[Stop DMX signal]** is on **[On]** after the time period **[Timeout value]** transmission through the port will stop and the diode will go out

Two single-color diodes at the bottom:

- the yellow one communicates receiving or sending a network packet
- the green one communicates the status of the Ethernet network, if the diodes emits continuous light, the network is connected, if the diode is not emitting light, there is no access to the network

7 PX760 cooperation with the grandMA2 console

The PX760 gate can work with the grandMA2 console, however, support for devices supporting the RDM protocol requires changing the console settings.

To operate RDM devices, the settings must be changed in the gate **[Auto discovery]** on enabled, the gate will continuously search for RDM devices. The next step is to enable RDM support in the grandMA2 console.

To do this, go to **Setup → Console → Global Settings**. Select **[RDM]** option and switch to **[On]** mode, below is a screenshot of the console:

Next, the **[Art-Net Output Active]** option should be run in the console. To start it, go to **Setup → Network → Network Protocols** in the console menu and attach it – orange backlight (screen on the next page).

Art-Net	ETC Net2	Pathport	sACN	Shownet	Kinet1

Valid	Requested	Mode	Destination IP	LocalSt	Amount	Network	Subnet	Universe	Delay (ms	Info
Yes	Yes	OutputAuto		1	8	1	0	0	0.00	
New										

Network DMX if Alone

Art-Net Output Active

Art-Net Input Active

Add	Delete

The PX760 gate should be connected to the console via an Ethernet cable to the **[ETHERCON 2 (ETH1)]** connector with the IP address set so that the console is in the same network as the gate. If Gate 2 DMX RDM is on the **2.x.x.x** network with the mask of **255.0.0.0**, then for the device to work together, the console must be on the same network. These settings can be changed in the console by going to the **Setup → Network → MA Network Configuration**.

Console	onPC	NPU	3D	VPU	NDP Dimmer	DMX Node	Network Switch	Bridge

IP ETHERCON 1(ETH0)	DHCP ETHERCON	IP ETHERCON 2(ETH1)	Hostname	Type	XLR A	XLR B	XLR C	XLR D	XLR E	XLR F	XLR In	MIDI TC
192.168.0.2		2.0.0.10	RUJA2	Light	Out 1	Out 2	Out 3	Out 4	Out 5	Out 6	Off	TC Slot 2
New												

Add	Delete				Add Present	Remove Absent	Remove Non-Members	

If everything is correctly configured, the gate continuously searches for the devices supporting the RDM protocol, the console is in the same network as the gate and has enabled RDM and Art-Net Output Active support. After adding the main RDM window to the main scree, you should see a list of all devices that supported the RDM protocol:

ID Fixture	ID Channel	Name	Universe	DMX START	MANUFACTURER LABEL	DEVICE MODEL DESCRIPTION	DEVICE LABEL	DMX PERSONALITY
Unmatched	Unmatched	0000505806603E43	3	1	PXM sp.k.	PX713	PX713	1 DMX 1 / Serial Driver
Unmatched	Unmatched	0000505857D0FDF3	2	1	PXM sp.k.	PX713	PX713	1 DMX 1 / Serial Driver
Unmatched	Unmatched	0000525300600746	1	1	Robe Lighting s.r.o.	Robin 800 LEDWash	EVENTLIGHT	1 DMX 38 / DMX Preset 1 - footprint 38
Unmatched	Unmatched	0000525300600790	1	1	Robe Lighting s.r.o.	Robin 800 LEDWash	EVENTLIGHT	1 DMX 38 / DMX Preset 1 - footprint 38
Unmatched	Unmatched	00005253006014E2	1	1	Robe Lighting s.r.o.	Robin 800 LEDWash	EVENTLIGHT	1 DMX 38 / DMX Preset 1 - footprint 38
Unmatched	Unmatched	0000525300601507	1	1	Robe Lighting s.r.o.	Robin 800 LEDWash	EVENTLIGHT	1 DMX 38 / DMX Preset 1 - footprint 38

RDM · All · Parameters and Sensors

8 Art-Net commands

List of Art-Net commands supported in PX760

Name	Value
OpPoll	0x2000
OpPollReply	0x2100
OpOutput / OpDmx	0x5000
OpSync	0x5200
OpAddress	0x6000
OpInput	0x7000
OpTodRequest	0x8000
OpTodData	0x8100
OpTodControl	0x8200
OpRdm	0x8300
OpFirmwareMaster	0xf200
OpFirmwareReply	0xf300

9   Upgrade

In order to update the gate firmware, use the program DMX-Workshop, which is available on the Artistic Licence website: http://www.artisticlicence.com.

Firmware updates are available on the manufacturer's website.

1. In the main menu field select the option [Node List]
2. In the field [Active Art-Net Nodes] select the device to which you want to upload the update
3. Right-click the device chosen, selecting in this sequence:
   [Advanced]→[Programme Upload]→[Firmware]
4. Using the "magnifying glass" button located to the right of the update access path, download the file with *.alf extension
5. In the [Compatible Devices] field select again the device to update
6. In order to upload the update, press the button [Upload new Firmware]

NOTE! When installing new software, problems may arise due to the Windows® firewall settings. One of the solutions is to completely disable the system firewall for the time of uploading the new firmware version. The second is to add the DMX-Workshop program to the exceptions in the firewall giving all permissions without having to completely disable the firewall (screen on next page).
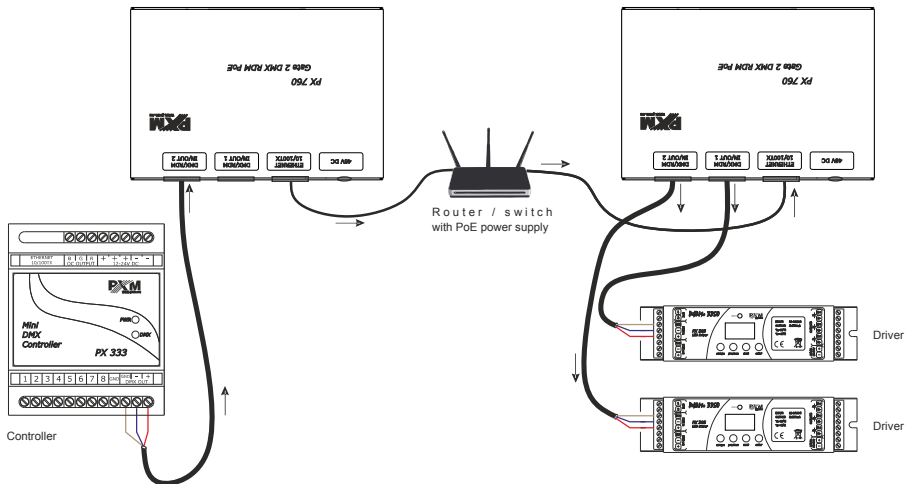
10   Connection scheme

DMX512 devices

DMX512 devices

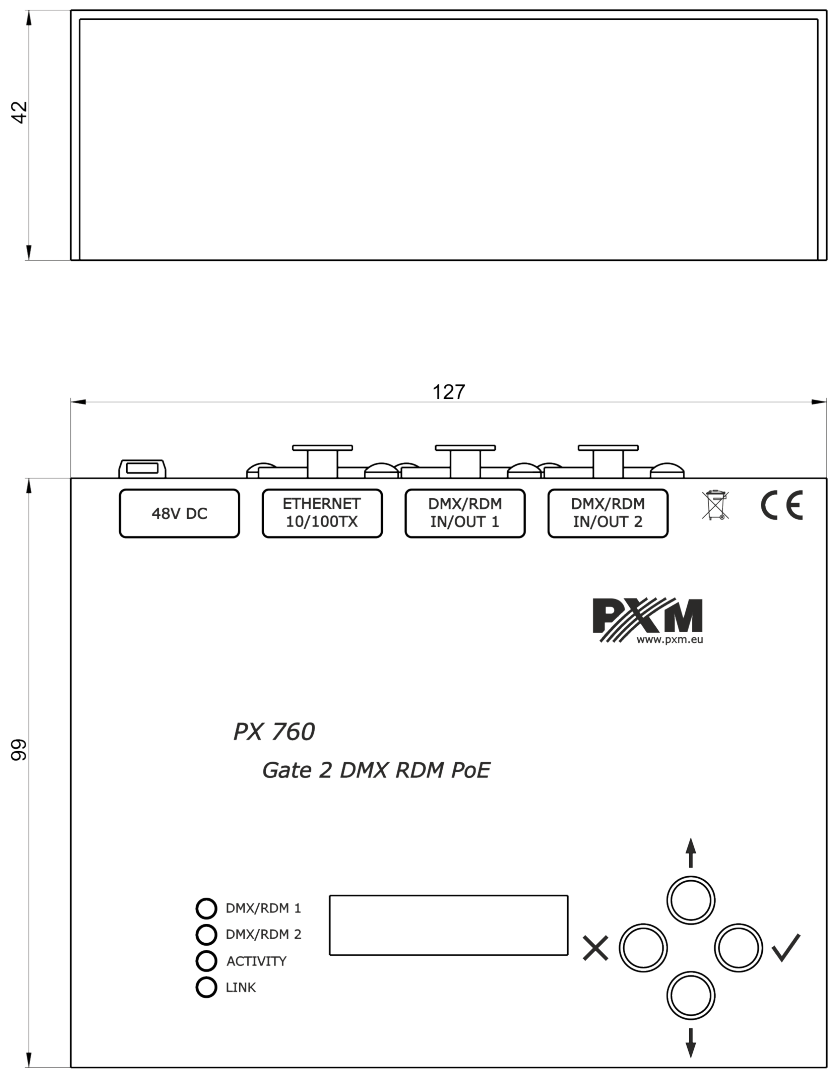Art-Net network (PoE)
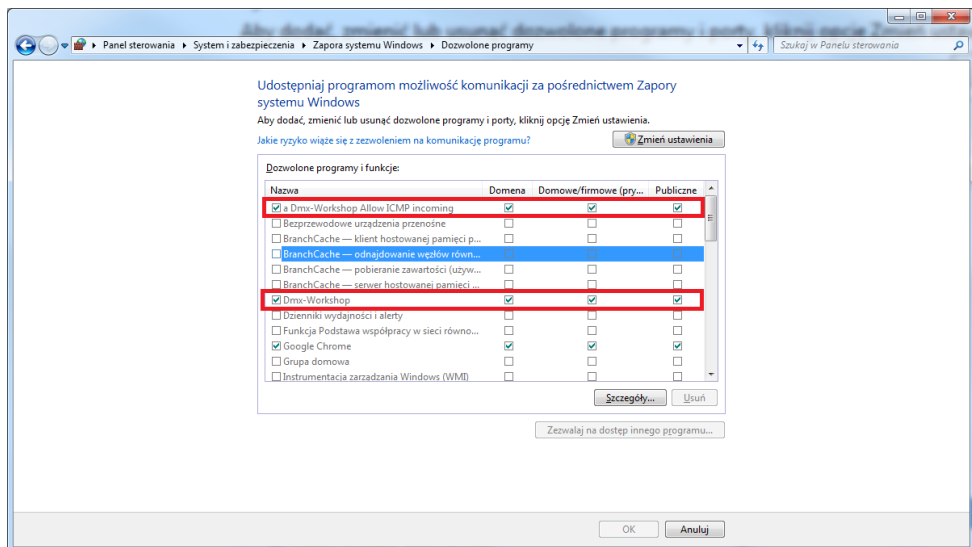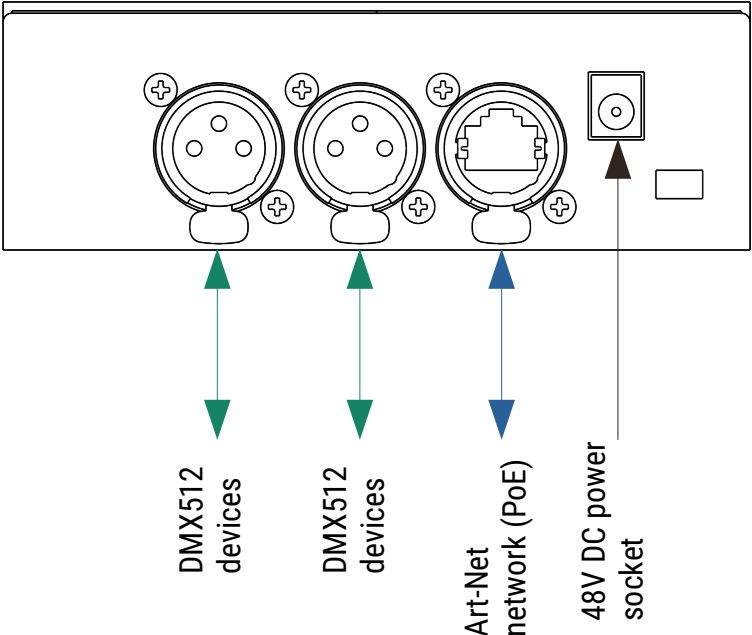
48V DC power socket

a) device operating in Art-Net → DMX512 mode with a 48V DC power supply connected
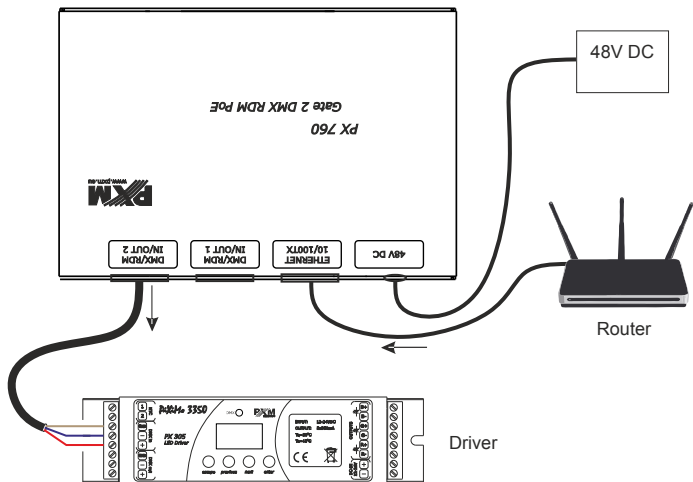
b) device operating in DMX512 → Art-Net mode using PoE power supply in the IEEE 802.3af standard

11 Dimensions

48V DC | ETHERNET 10/100TX | DMX/RDM IN/OUT 1 | DMX/RDM IN/OUT 2

PX 760

Gate 2 DMX RDM PoE

DMX/RDM 1
DMX/RDM 2
ACTIVITY
LINK

127

42

99

12   Technical data

type	PX760
DMX/RDM lines	2
DMX/RDM input	socket 3-pin or 5-pin Neutrik XLR
RDM protocol support	yes
bi-directional signal conversion	yes
optically isolated XLR connectors	yes
galvanic isolated XLR connectors	yes
Ethernet connector type	Neutrik etherCON
DHCP protocol support	yes
Art-Net version	Art-Net 1, 2, 3, 4
communication method:	Art-Net, display and buttons
firmware update	through Art-Net 4 protocol
default user presets	2 (2.x.x.x and 10.x.x.x)
indications mode	Normal, Mute, Identify
"No signal Art-Net" mode	yes (holding last value)
synchronous mode support	yes
dark mode (screensaver)	yes
user interface	2 x 16 LCD display, 4 x buttons, 2 bi-color diodes, 2 single-color diodes
power supply	PoE (Power over Ethernet IEEE 802.3af) or 48V DC (power adapter not included)
power consumption	3W
weight	0.3kg

dimensions	width: 127mm height: 42mm depth: 99mm

DECLARATION OF CONFORMITY

PXM Marek Żupnik spółka komandytowa
Podłęże 654, 32-003 Podłęże

we declare that our product:

Product name: Gate 2 DMX RDM PoE

Product code: PX760

meets the requirements of the following standards, as well as harmonised standards:

PN-EN IEC 63000:2019-01	EN IEC 63000:2018
PN-EN 62368-1:2015-03	EN 62368-1:2014
PN-EN 61000-4-2:2011	EN 61000-4-2:2009
PN-EN IEC 61000-6-1:2019-03	EN IEC 61000-6-1:2019
PN-EN 61000-6-3:2008	EN 61000-6-3:2007

and meets the essential requirements of the following directives:

2011/65/UE **DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment
Text with EEA relevance.

2014/30/UE **DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)
Text with EEA relevance.

2014/35/UE **DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits

PXM
Marek Żupnik spółka komandytowa
32-003 Podłęże, Podłęże 654
NIP 677-002-54-53

mgr inż. Marek Żupnik.