



SUNDRAx PGS-3-4DE PowerGate DMX Transceivers User Manual

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SUNDRAx PGS-3-4DE PowerGate DMX Transceivers



Safe operation

To ensure safe and reliable operation of the devices, please observe the following requirements: Use the device only for its intended purpose; Do not use devices that show signs of malfunctioning; Avoid strong physical impacts on the device; Protect devices and cables from contact with corrosive liquids; Whenever a fault is detected in the device, please contact the manufacturer.

Warning!

The device uses hazardous voltage AC 100-230V

General information

PowerGate converter presents is an intelligent PWRDMX/Ethernet/DMX converter protocols, with functions of merging (merging) and redundancy data, and is an effective solution for managing lighting equipment based on the interface DMX512. A special feature of the converter is it's multifunctionality, which is expressed in the possibility various transformations and merging (merging) of protocols PWRDMX, DMX512, RDM (ANSI E1.20), ArtNet (1,2,3,4), sACN (Draft, Release), KiNet (v1, v2), RTrPL, data transfer of these protocols via a power line up to 400 m long and an Ethernet network with functions and redundancy, as well as the possibility of building different combinations of reception/transmission of signals. To connect additional equipment and settings via Ethernet the converter has a built-in Ethernet port with a speed of 10/100 Mbit / s. For equipment settings, you can use the built-in web interface, ArtGate Setting program, third-party software manufacturers supporting the ArtNet protocol, or specially developed ARISTO software. The device is designed in a dust-and-moisture-proof duralumin case with an IP65 protection class and can be used at positive and negative ambient temperatures outdoors, indoors, indoors and outdoors. The flexibility in the placement of the device is characterized by its compactness, the ability to install on a farm and a horizontal/vertical surface.

Installation

1. Visually inspect the device to make sure that there are no transportation damages;
2. Connect the first device in transmitter mode to the DMX signal source, and the second device in receiver mode to DMX-controlled equipment;
3. Connect AC power cable of the device to a power outlet in the network segment which is selected for work.
There should be no reactive components such as transformers, surge protectors, etc. between the power sockets transmitter and receiver connected to. Normal operation of the device in any mode starts immediately after switching the power on.

Warning!

Before mounting and power up, it is necessary to verify protective earthing and cable connections.

Wireless network configuring

(receiver)

1. At power-on the receiver waits for a connection request from the transmitter. In this state the green LEDs on it lights steadily.
2. When connected to the transmitter the receiver LEDs start blinking on every data reception. DMX512 data received from network are sent to the output interface.

Wireless network configuring

(transmitter)

1. At power-on the transmitter connects to all receivers connected to all receivers from the same segment of power network. If the DMX data stream at the input connector of this channel is correct the LED associated with it lights steadily green. If there is no data stream the LED starts blinking.
2. DMX512 data taken by the transmitter from the input connector are transmitted to all connected receivers.

Indication

List of possible malfunctions and methods of their elimination:

Fault Name, Visual Signs	Possible Reasons	Troubleshootings
The device does not work, neither of the LEDs are lit	There is no supply voltage Supply line fuse is broken	Connect the device to a working power outlet Replace the supply line fuse
No data transmission between the transmitter and one or more receivers	The receivers are in another network segment There are reactive elements present in the segment	Check the network, put devices to the same mains segment Check the network, remove reactive load

Web-settings

PowerGate devices support configuring most of their parameters through the web interface using the HTTP protocol (TCP port 80).

Main settings

To access the settings page enter the IP address of the device to the browser. The main settings page of the PowerGate device will be displayed.

- Start discovery Searching connected devices
- Refresh report Refresh search/list state detected devices

- Break from 4 to 1000 μ s
- MaB from 4 to 1000 μ s
- Data slots 1 to 512
- Pause from 0 to 10000 μ s

Options – enable/disable device features.

Advanced port settings – settings for advanced features for each port:

- Src. timeout Universe source timeout, in seconds
- Trigger/XFade unv. protocol XFade/Trigger control universe protocol
- Trigger/XFade unv. number XFade/Trigger control universe number
- Trigger/XFade control channel XFade/Trigger control channel
- Loop. unv. protocol Loop back universe protocol
- Loop. unv. number Loop back universe number

Triggers/alarms – (for PowerGates equipped with Trigger inputs)- setup the mode of Trigger inputs:

- Input Trigger/Sensor input
- Mode Operating mode (disabled, trigger/alarm sensor normally open/closed)
- Delay, ms Delay for triggering in milliseconds Current status of input (open, closed)
- Action Save the current state of all DMX ports as scene to recall on trigger activation
- To save the changes in advanced settings, click «Save settings».
- To restore the default values of advanced settings, click «Set default».
- To reset to the current saved values of advanced settings, click «Reset».

Network settings

To edit the network settings of the device, click on the link “Network”.

PowerGate
Network settings

[Main](#) [Advanced](#) [Network](#) [Profiles](#) [Firmware](#)

MAC address: 00:02:8C:A6:15:3B (secondary IP: 2.161.21.59)

Main IP: 2.161.21.59

Subnetwork mask: 255.0.0.0

Gateway IP: 0.0.0.0

ArtNet UDP port: 6454

sACN UDP port: 5568

Access login: admin

Access password:

[Save settings](#) [Set default](#) [Reset](#) www.sundrax.com

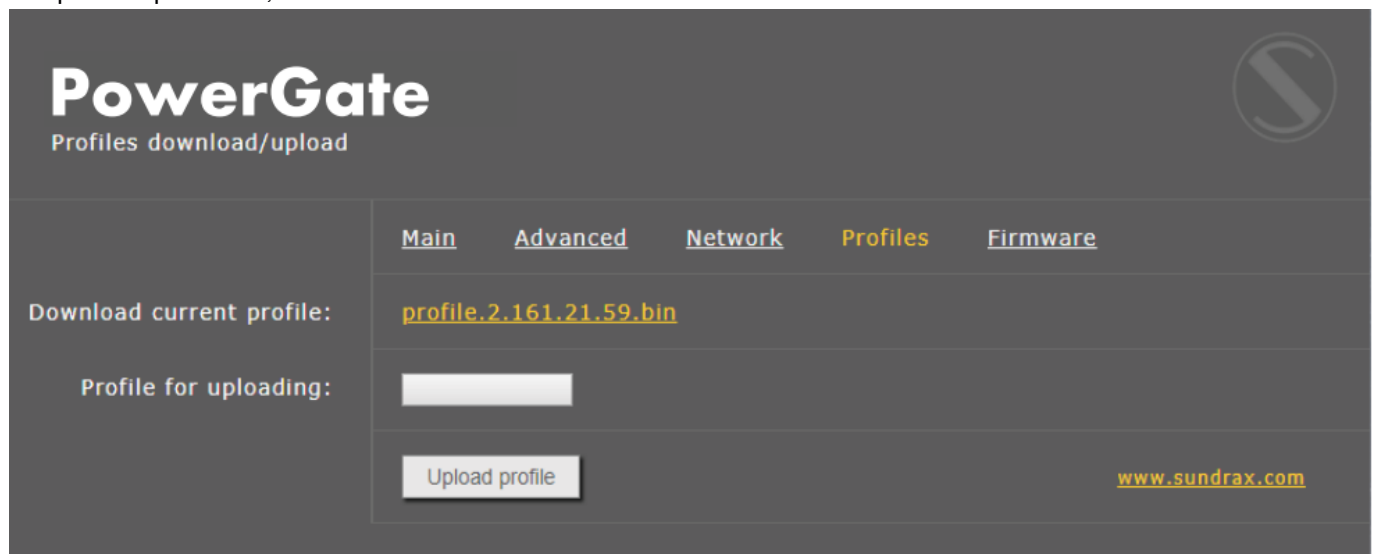
- MAC address Hardware address and secondary (permanent) IP address of the device
- Main IP Set the main network address of the device
- Subnetwork mask Set the mask of the IP-subnet
- Gateway IP address Set the network address of the gateway (if the ability to operate via the Internet is

required)

- Art-Net UDP port Set the UDP port for the ArtNet protocol
- sACN UDP port Set the UDP port for the sACN protocol
- Access login/password Login and password for access to the web interface of the device. If a password is empty, authentication is not performed
- To save the changes in network settings, click «Save settings».
- To restore default values of network settings, click «Set default».
- To reset to the current saved values of network settings, click «Reset».

Profiles

For profile operations, click on the link «Profiles».



The screenshot shows the PowerGate web interface. At the top left is the 'PowerGate' logo with the subtitle 'Profiles download/upload'. In the top right corner is a circular logo with a stylized 'S'. Below the logo is a navigation bar with five tabs: 'Main', 'Advanced', 'Network', 'Profiles' (which is highlighted in yellow), and 'Firmware'. The main content area is divided into two sections. The left section has two labels: 'Download current profile:' and 'Profile for uploading:'. The right section contains a yellow link 'profile.2.161.21.59.bin' under the first label, a text input field under the second label, and a button labeled 'Upload profile' at the bottom. In the bottom right corner of the interface is the website address 'www.sundrax.com'.

- Download current profile Download the current settings as a file
- Profile for uploading Select the file of the previously saved profile
- Upload profile To upload the selected profile in the device

Firmware update

To update firmware of the device, click on the link «Firmware».

www.sundrax.com

- ## Documents / Resources

