SRS LIGHT DESIGN

DST4W Wireless DMX/ DMX Splitter

Instruction Manual

Model:

DST4W-3	**3-pin DMX connectors**
DST4W-5	**5-pin DMX connectors**
DST4W-C	**Mixed DMX connectors**

ATTENTION!

This instruction manual contains important information about the installation and the use of equipment. Please read and follow these instructions carefully. Always ensure that the power to equipment is disconnected before opening the equipment or commencing any maintenance work.

IMPORTANT SAFETY INFORMATION

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

Do not operate in an explosive atmosphere!

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard. Device should be never placed near or over a heat register or other source of heated air and it should not be installed or operated without proper ventilation.

Mains AC 85-265V connection

AC power is connected to the splitter via Neutrik PowerCon blue connector. Standard supply is UNISCHUKO lead with Neutrik PowerCon. Always respect the markup of L and N on connector for correct wiring of Line and Neutral.

DMX connection

DMX connectors are located on both sides of the splitter board. These are separated to two groups. First group is wired in ration 1:1 and marked as DMX input and DMX thru. This line is not optically isolated and when the device is last in line, it should be terminated by the termination resistor of 120ohm wired between pins 2 and 3 of the DMX thru connector.

The other group consists of 4-way optically isolated lines marked with letters A-D. Each line has a separate power supply, line driver and the indication of signals D+, D- on both signal lines. These LEDs are active when splitter is retransmitting DMX signal and there is no short circuit between data lines.

In case of short circuit between data pins D+/D- and the CMN pin, the LED connected to the data line is off.
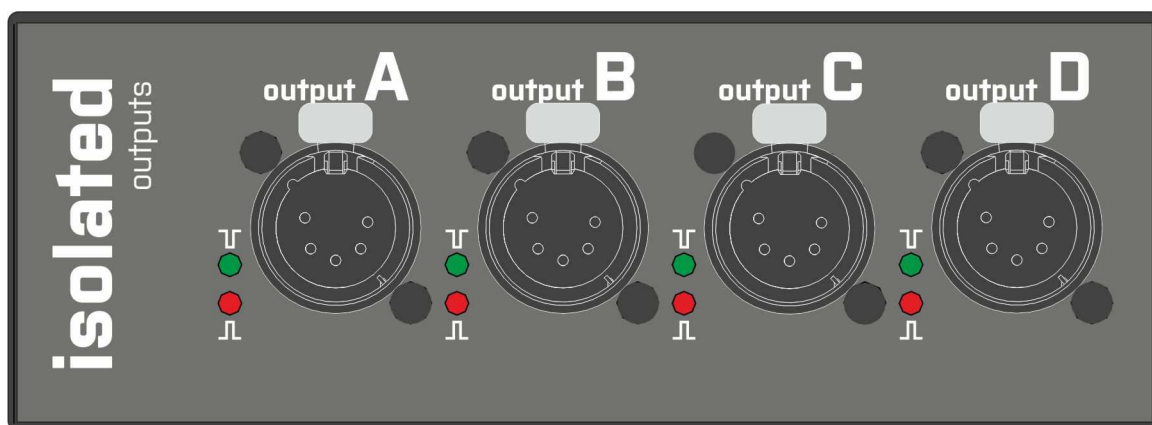
Pin 1   Ground / Common
Pin 2   Data -
Pin 3   Data +

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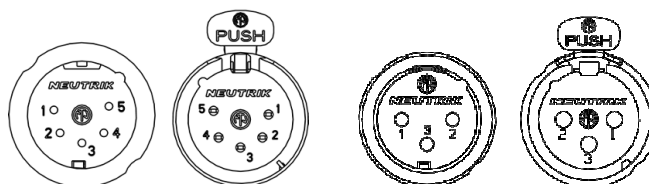
Front panel:
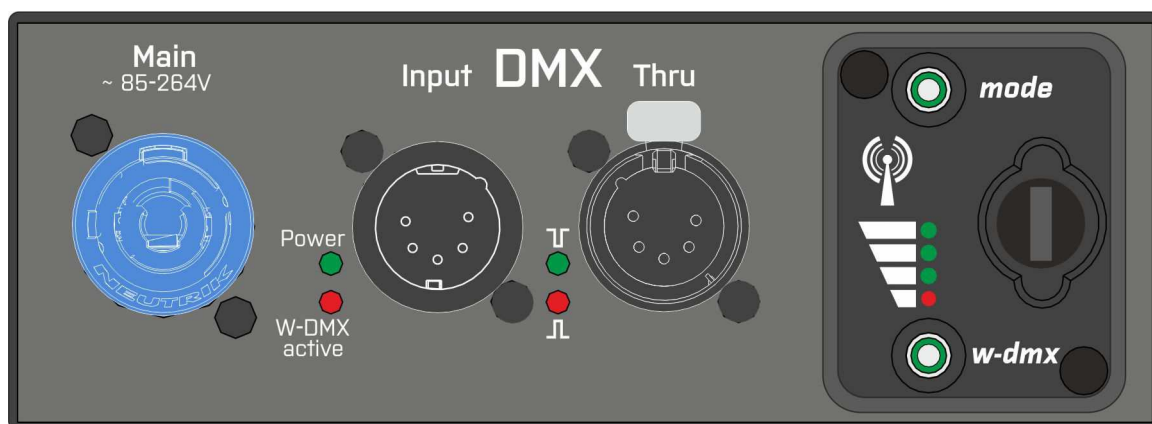
Rear panel:

Device in use / service:

By default, Power LED indicates the device is on main power. When the Power LED is off, check the main power input.

When the DMX cable is connected to the device, LEDs marked as D+ and D- go on for the side marked as DMX input, thru and this indicates that DST4 is receiving the DMX signal. Speed of light on these LEDs also indicates the refresh rate of DMX signal. Fast blinking – high refresh rate, slow blinking – slow refresh rate.

On the rear panel of DST4, there are outputs A-D, which are retransmitting the input to the optically isolated outputs. If there of data LEDs is off, unplug the signal cable corresponding to this output and check the cable for short circuit between D+ and CMN or D- and CMD lines.
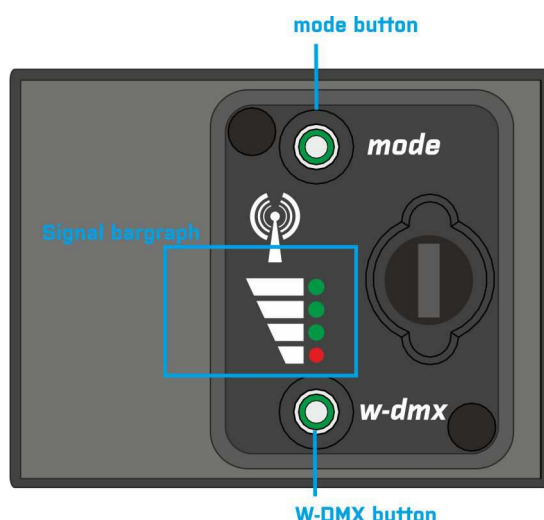
DMX operation
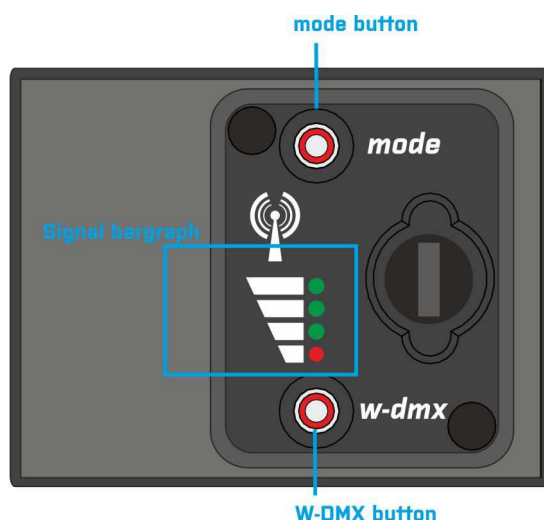
For the DMX operation, turn off the W-DMX module by holding the MODE button until both W-DMX and MODE buttons light in red color.

Connect the DMX cable to the DMX-in connector and use DST4W as a standard DMX isolated one-to-four splitter.

W-DMX operation

For the W-DMX operation, turn on the W-DMX module by holding the MODE button until it lights in green color.

The W-DMX function button will indicate the W-DMX functionality as shown on the bottom of this page.

To log off from a linked transmitter, hold the W-DMX Button for more than 5 sec.

There is an automatic backup of the W-DMX line by a cable connection. When DST4W unit is linked to the transmitter and the signal quality is poor, W-DMX active LED goes off and splitter retransmits signal from the cable DMX in/thru port.

In the normal state of good signal quality, the W-DMX active LED is on.

W-DMX LED/button signalization:

Not linked to any Transmitter
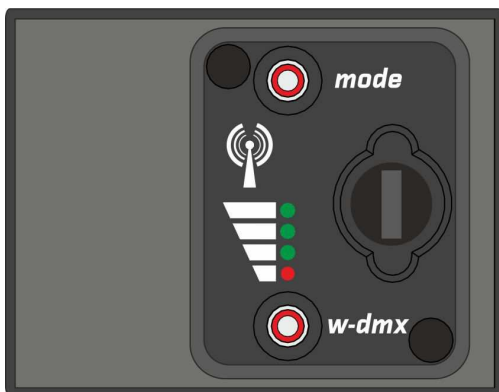

Linked to Transmitter + Missing DMX on Transmitter

Linked to Transmitter + Receiving DMX
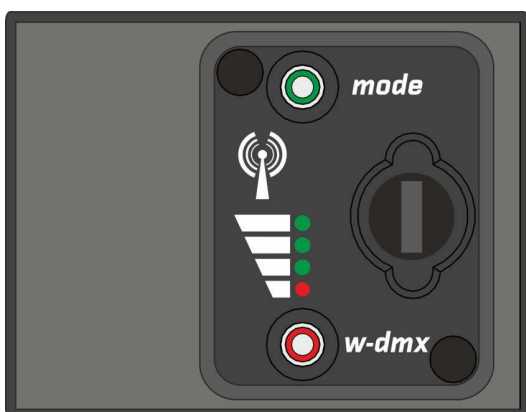
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W-DMX functions

1. W-DMX is turned off. DST4W functions as a DMX splitter. To turn the W-DMX on, hold the mode button for 3 seconds. The MODE button lights in green color.

3. W-DMX is linked. DMX is missing on the Transmitter.

The W-DMX LED signalizes this by blinking in red/green color. Bargraph is in an active state.

To disconnect from the Transmitter, hold the W-DMX button for 10 sec. Module will turn to state 2.

2. W-DMX is ready to be linked. DST4W works as a receiver of the W-DMX signal without a link to the transmitter.

Hold button on the **Transmitter** to start the linkage of DST4W.

4. W-DMX is linked to the Transmitter and is receiving the DMX signal. Both indicators are in green color. Bargraph is working and showing the W-DMX signal strength.
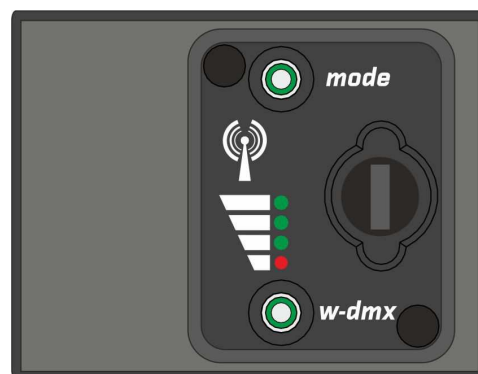
Technical data

Mains input:
AC 100-255V / 50-60Hz / 5W

Input / Output:
4x USITT DMX512 /RS485/ isolated up to 1000V

Size:
Lightweight Aluminum box with powder coating: 234x154x62mm

Mounting points:
Located symmetrically on the base plate, 8mm wide hole for the securing line
Grid of mounting points: 222x78mm, 4x rubber foot on the bottom

Weight:
1.7 kg

Temperature of use:
-10 ºC…+45 ºC

Warranty:
Two-Year /24-month/ warranty

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