Wireless DMX Transmitter/Receiver/Splitt

Instruction Manual

Models:

DSR8W-3 PRO, DSR8W-5 PRO
DSR8W-C PRO

version 1.0 since 3 February 2020

ATTENTION!

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

DSR8W-PRO_en_manual_M077.doc

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 never be 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 85-265V connection

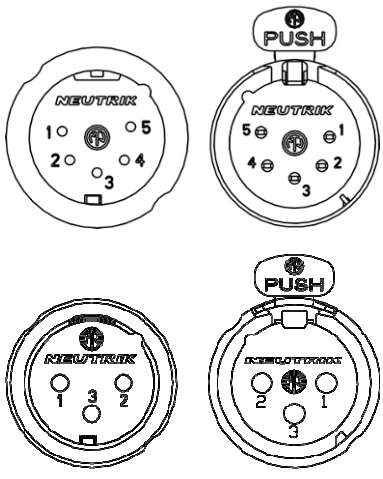
AC power is connected to the splitter via Neutrik PowerCon blue connector. Standard supply is UNISCHUKO lead with Neutrik PowerCon. Always respect marking of L and N on connector for correct wiring of Line and Neutral.

DMX connection

DMX connectors are located on the front panel of the splitter board. These are separated into two groups. First group is wired in ratio 1:1 and marked as DMX input and DMX thru and is located on the left side of the splitter. This line is not optically isolated and when the device is last in line, it must be terminated by the termination button near the DMX thru connector.

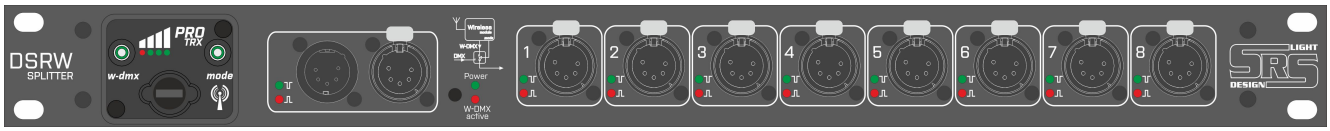
The other part of splitter consists of 8-way optically isolated lines marked with numbers 1-8. Each line has a separate power supply, line driver and the indication of signals D+ and D- on both signal lines. These LEDs are active when the splitter is retransmitting the DMX signal and there is no short 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 will be off.



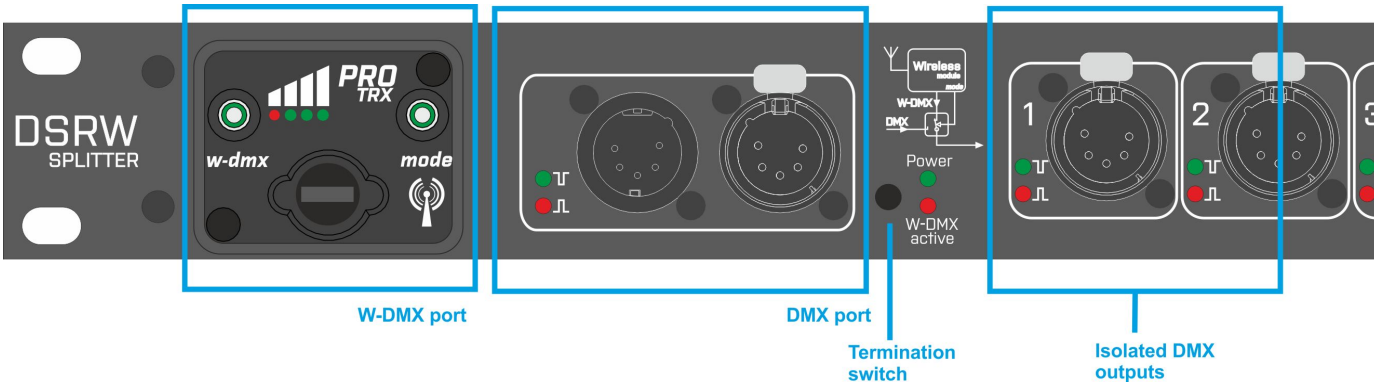
Pin 1	Ground / Common
Pin 2	Data -
Pin 3	Data +

Front panel:



Rear panel:

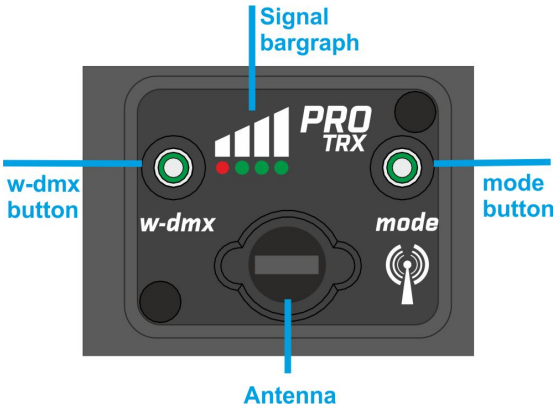
Device use:



By default, Power LED indicates that DSR8W is on main power. When the power light is off, check the main power input. DSR8W can be used as usual DMX splitter, W-DMX receiver or splitter with 8 outputs.

W-DMX signal does not affect the IN/THRU outputs. Cable connection can always be used as a backup line for the W-DMX data line.

Transmitter / Receiver switch:

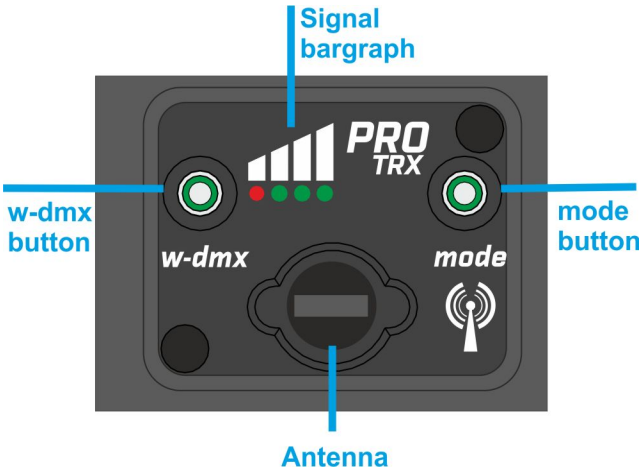


One of the two functions (Transmitter/Receiver) of DSR8W PRO can be selected by holding the W-DMX button **until** all lines of bargraph start blinking. Switching between cycles OFF/TX/RX/OFF is possible by turning the module on and off and by holding of the W-DMX button.

DMX operation

For the DMX operation, turn off the W-DMX module by holding the MODE button until both W-DMX and mode buttons are lit in red color. W-DMX module is now turned off. Now just connect the DMX cable to DMX IN connector and use DSR8W as standard DMX isolated splitter one to eight. When the DMX signal is connected, LEDs marked as D+ and D- go on for the input module and output modules 1:8.

W-DMX operation: Receiver



For the W-DMX operation, turn on the W-DMX module by holding the MODE button until Mode lights in green. The W-DMX function button will indicate the W-DMX functionality described on the next page. When the unit is in the Receiver mode, the signal bargraph is showing the W-DMX signal strength. There is an automatic backup of the W-DMX line by the cable connection. When the W-DMX is linked to the transmitter, signal quality is good and the W-DMX active LED is on. When this LED is off, the quality of W-DMX signal is poor or the Transmitter is turned off. Please check before reconnecting to transmitter.

W-DMX button LED signalization

Not linked to any Transmitter

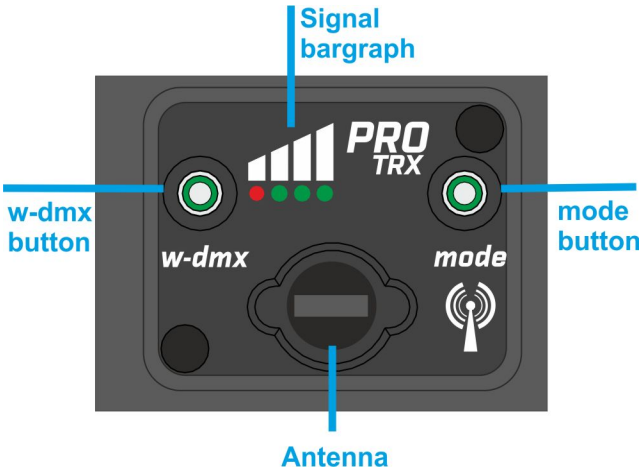
Linked to Transmitter + Missing DMX on Transmitter

Linked to Transmitter + Receiving DMX

W-DMX button RX function

- **Long press** /more than 10s/ – Unlinking from the Transmitter

W-DMX operation: Transmitter



For the W-DMX operation, turn on the W-DMX module by holding the MODE button + the W-DMX function button until both light in green color + the W-DMX is slowly changing color. The Transmitter operation is indicated by changing of three green Bargraph LEDs in effect of transmitting.

You can use the DSR8W PRO as the Transmitter and DMX splitter mode at the same time. The W-DMX active LED is off while the module is in the Transmitter mode.

W-DMX button LED signalization

Transmitter mode without DMX connected

Transmitter mode + DMX connected

Linking to Receivers

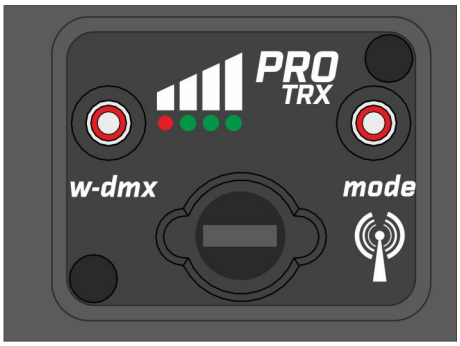
Transmitter mode, un-linking all connected Receivers

W-DMX button TX functions

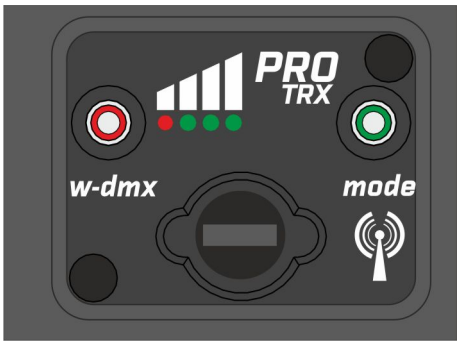
- **Short press** /not more than 2s/ – Linking Receivers
- **Long press** /more than 10s/ – Unlinking from all Receivers

W-DMX PRO functions

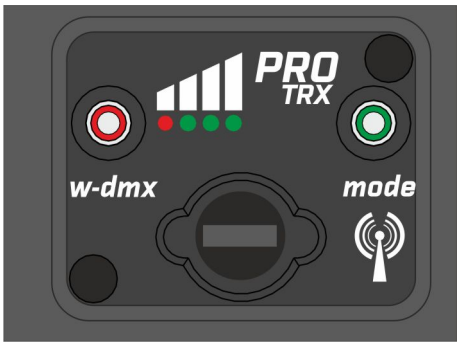
1. W-DMX is turned off. DSR8W is used as a DMX splitter. To turn the W-DMX on, hold the mode button for 3 sec. To turn it off, hold the mode button for 5 sec.



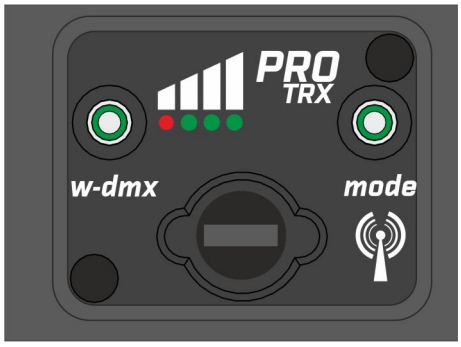
2. W-DMX is ready to be linked, DSR8W works as splitter until the W-DMX signal is coming to the W-DMX port. Signal bargraph is showing the signal strength.



3. W-DMX linked + DMX is missing on Transmitter. The W-DMX LED is changing from red to green slowly and Bargraph is working.



4. The W-DMX is linked to the Transmitter and receiving the DMX signal. Both indicators are green. Bargraph is working.



Device in use / service:

Should there be any problem, do not hesitate to contact us at sales@srs-group.com or +421244681417 and stay calm. We will help you fix your problems for sure.

Technical data

Mains input:
AC 100-255V / 50-60Hz / 15W

Input / Output:
8x USITT DMX512 /RS485/ isolated up to 1000V
W-DMX port compatible with W-DMX Transmitters

Size:
1U, Rack-mount metal box with powder coating: 480x183x44.5mm

Weight:
3.6 kg

Temperature of use:
-10 °C...+45 °C

Warranty:
Two-year /24-month/ warranty

DECLARATION OF CONFORMITY
According to guidelines 89/336 EEC and 92/31 EEC:

Name of producer: SRS Group s.r.o.

Address of producer: Rybnicna 36/D, SK- 83106 Bratislava, Slovak Republic

Declares that the product

Name of product: DSR8W PRO, 8-way DMX/W-DMX Transmitter/Receiver & Splitter
Type: DSR8W PRO

Corresponds to the following product specifications and R&TTE Directive of the European Union:
Safety: EN60065, resp. EN 60950
EMC: EN55103-1, resp. EN55103-2
Radio: EN 301 489-1; 301 489-17; EN 300-328-1; EN 300-328-2

Bratislava, 10 May 2011

Robert Sloboda

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