

VRS-485

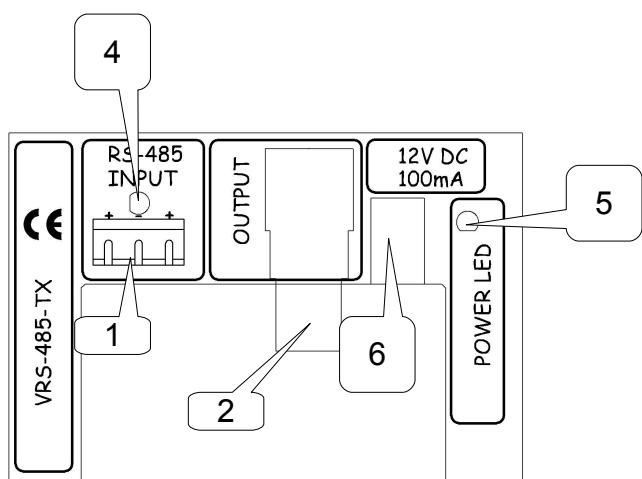
RS – 485 TRANSMISSION SYSTEM

1. DESCRIPTION AND CONNECTION:

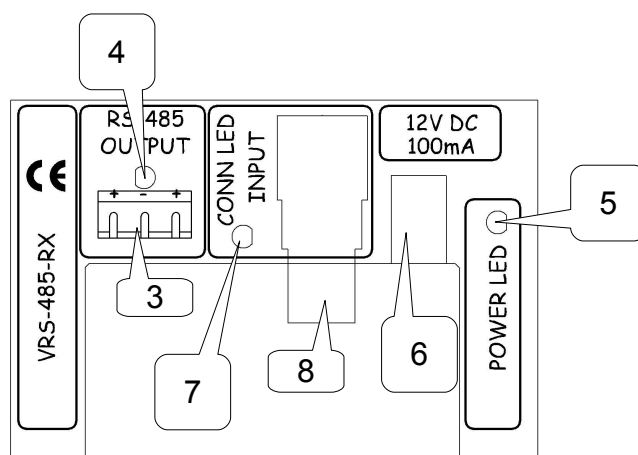
The VRS-485 devices enable RS-485 data transmission via video analog signal transmission media (eg coaxial cable, wireless video transmission devices and fiber video converters).

ATTENTION! There is no possibility to transmit in the same time a video signal and RS-485 data in the same transmission media (eg the same coaxial cable or the same radio channel, etc.).

The devices are transparent for the transmission protocols (can be used any protocols), but the transmission speed is limited up to 115 kb/s. This is one-way transmission type. Transmitted signal has no constant component, so in the video transmission path may be used a constant component filter elements such as capacitors and transformers. The overvoltage limiters, optoisolators and video splitters also can be used. After correct connection the transmitter to the receiver, the "connect" LED indicator should be light on. During transmission of the RS-485 data, the transmission control LED indicators of the receiver and transmitter RS-485 line will blink.



Pic. 1a Transmitter



Pic. 1b Receiver

- 1 – RS-485 input.
- 2 – Signal output to video channel.
- 3 – RS-485 output.
- 4 – RS-485 signal transmission control LED indicator.
- 5 – Power LED indicator.
- 6 – Power input - DC 2.1/5.5 9 socket - 12V 100mA.
- 7 – „Connect” LED indicator.
- 8 – Signal input from video channel.



SPECIFICATIONS: TRANSMITTER

Number of video outputs	-	1
Signal output voltage	-	750mVpp
Number of RS-485 inputs	-	1
Video output impedance	-	75Ω
RS-485 data max. transmission speed	-	115kb/s
Power connector	-	DC 2.1/5.5
Max. current consumption	-	100mA
Power voltage	-	9 – 12V DC
Dimensions	-	118x92x37mm
Weight	-	110g
Operation temperature range	-	0° – 50° C

SPECIFICATIONS: RECEIVER

Number of video inputs	-	1
Sensitivity	-	500mVpp
Transmission range (coaxial cable)*	-	max(800m)
Number of RS-485 outputs	-	1
Video input impedance	-	75Ω
RS-485 data max. transmissio speed	-	115kb/s
Power connector	-	DC 2.1/5.5
Max. current consumption	-	100mA
Power voltage	-	9 – 12V DC
Dimensions	-	118x92x37mm
Weight	-	110g
Operation temperature range	-	0° – 50° C

* - In case of use in the transmission path some devices such as amplifiers or radio transmitters, the max. transmission distance can be increased.